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# AVICULTURAL MAGAZINE



SPECIES INDEX

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# THE AVICULTURAL SOCIETY

The Avicultural Society was founded in 1894 for the study of British and foreign birds in the wild and in captivity. The Society is international in character, having members throughout the world.

Membership subscription rates per annum for 2014: British Isles £21.00: Overseas £24.00 (plus £6.00 for airmail). (UK funds please). Full-time students £12, Overseas £15 (please state course attended). The subscription is due on **1st January of each year** and those joining the Society later in the year will receive back numbers of the current volume of the AVICULTURAL MAGAZINE.

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The AVICULTURAL MAGAZINE welcomes articles and news items from both members and non-members (no payment is made). These can be about any aspect of aviculture, conservation or natural history concerning non-domesticated bird species that is likely to be of interest to aviculturists. Articles submitted for publication should preferably not have been published elsewhere, and should ideally be written in English, though translation is possible. Scientific as well as vernacular bird names should be given, and references cited in the text should be listed at the end of the article. Material can be sent as an email attachment to [editor@avisoc.co.uk](mailto:editor@avisoc.co.uk) and can be accepted in most common file formats. Files on disk and typed or handwritten manuscripts are also accepted. Line drawings, black and white or colour photographs can be used to illustrate articles and should be clearly captioned. Tables and graphs submitted will be used whenever possible. Graphs should ideally be accompanied by the relevant source data.

## ADDRESS OF THE EDITOR:

Martin Greene, The Avicultural Magazine, Vale Cottage, Hemington, Radstock, Somerset, BA3 5XU England. Email [editor@avisoc.co.uk](mailto:editor@avisoc.co.uk).

COVER PHOTO: Black-bellied Whistling Duck *Dendrocygna autumnalis* by Gregory Guida.

# AVICULTURAL MAGAZINE

THE JOURNAL OF THE AVICULTURAL SOCIETY

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2014

## The Avicultural Society

FOR THE STUDY OF BRITISH AND FOREIGN BIRDS  
IN THE WILD AND CAPTIVITY

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# AVICULTURAL MAGAZINE

THE JOURNAL OF THE AVICULTURAL SOCIETY

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2014

## FROM THE CHAIRMAN

This multiple issue completes 120 years of the Avicultural Magazine. To mark this milestone, the Avicultural Society is publishing an index for the whole of this period. The magazine itself is of course a fantastic resource, packed with information on the behaviour and husbandry of a wide range of birds, as well as documenting the history and development of aviculture over more than a century. The index is a hugely useful resource in its own right, providing as it does the key to the riches contained within the magazine.

The index has three parts, but the volume of material available in the magazine is such that only the first two – the species index, which is the largest, and a brief family index which acts as an aid to navigating the species index – are included here. The subject index will appear separately as part of volume 121.

It should now be easy to find articles on species of interest. If these are not contained in your own collection of magazines, they may be available from our stock of back issues; to find out simply contact the treasurer. Alternatively, the magazine from 1894-1922 can be read online at the Biodiversity Heritage Library (link on AS website) and library copies are available at a number of institutions – The Zoological Society of London holds a full set at Regent's Park and The Natural History Museum also holds a full set at Tring and 1894-1983 at South Kensington. There are links on our website to the visiting arrangements and to NHM's digitised copy service. We have agreed to deposit a set with the National Museum of Scotland in Edinburgh, and will let you know when these are available. A number of other zoos, museums and libraries around the world subscribe or have subscribed, in some cases through agencies so we are not always aware of their locations or visiting arrangements. We would be happy to publish details of other sets available for reference – we would like to see the Avicultural Magazine used as widely as possible.

The index will also be made available on the website, and will be updated online annually. I hope having this printed copy in your hands will open up or reopen routes into the fascinating treasure trove that is the Avicultural Magazine.

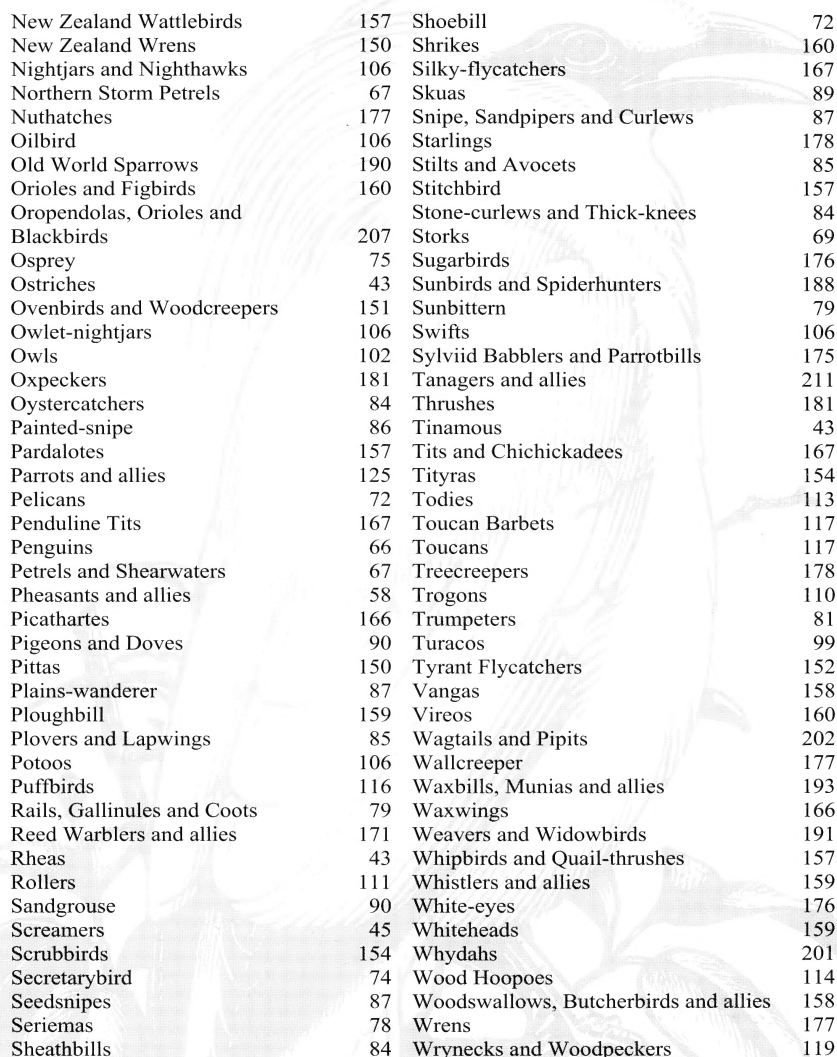
**Nigel Hewston**



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# INTRODUCTION

The original concept of a comprehensive index to the Avicultural Magazine was first mooted in the mid 1970s. The initial index covering up to 1981 took three years to complete but was never published owing to the prohibitive costs of producing it as a single volume. During the intervening years, publishing costs have been reduced but more importantly the internet has become widely available and it was decided to use this medium initially as a means of making the index generally available, both cheaply and quickly, supplemented now by this publication covering the whole period from 1894 to 2014.

## EXPLANATION OF METHODS USED

With the advent of the internet and the scope it offers, a single reference source is now used for taxonomic guidance and that is the continually up dated IOC World Bird List published by the International Ornithological Committee (now International Ornithologists' Union). The aim of this list is to create a standard format.

While many names, both common and scientific, have been brought in line, subspecies which are not normally given a common name are still credited with the UK avicultural name in general use.

In the SPECIES INDEX all species are entered systematically under family headings. These are only split by group or genus entries e.g. Tanagers, *Chloropsis* etc, otherwise they follow on. The SUBJECT INDEX entries are listed alphabetically.

## LAYOUT OF SPECIES ENTRIES

Data entry is laid out alphabetically but starts with un-named general references. Each related reference is split using ; and ends using . before the next heading starts.

Black and white illustrations and line drawings are denoted with b/w following the reference while a B/w denotes a black and white illustration without accompanying text. Colour plates are noted using \* after a reference denotes an accompanying plate while \* before a reference advises of a colour plate without text. The one-off newsletter is denoted by N/L while ibc indicates inside back cover.

In all individual species references the entire page range is given while in general headings and the SUBJECT INDEX heading entries are only given the start page.

# SPECIES INDEX

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### **Black Swan** *Cygnus atratus*

A prolific 1936 339-340; 1947 206-208. Note 1968 52. Pair presented to Queen Elizabeth of Belgium 1949 154.

### **Black-necked Swan** *Cygnus melancoryphus*

1963 48-50; 1947 208 b/w; 1968 52. Bred 1931 100. Breeding 1964 154. Grass under tongue 1916 50-51b/w. Reared for twenty years 1947 99.

### **Mute Swan** *Cygnus olor*

A sociable cygnet 1906 196-198. At Abbotsbury 1913 344b/w; 1998 18-22. Memory of 1956 153-154. On Lake Geneva 1929 169b/w. On Thames 1949 38. Prolific swans 1926 198. Wild swans of Erin 1946 189b/w.

### **Trumpeter Swan** *Cygnus buccinator*

At Berlin Zoo 1964 29-30. At Lonesome Lake, Canada 1951 185b/w. Bred 1959 181; 1965 21; 1966 30; 1972 148. Fate of 1944 127-132b/w; 1947 215-216. Note 1927 219b/w. Paying a Royal visit 1951 186-187b/w. Wild 1969 147.

### **Tundra Swan** *Cygnus columbianus columbianus*

Tragedy at Niagara Falls 1909 92-93.

### **Bewick's Swan** *Cygnus columbianus bewickii*

Bred at Bently 1972 46-47. Breeding at: Flamingo Gardens 2011 11-12\*; Slimbridge 1956 27-28; Woburn 1933 100. Longevity, breeding at twenty-six years old 1975 54.

### **Whooper Swan** *Cygnus cygnus*

Bred 1938 106. Breeding in America 1935 149. Breeding Record 1913 315.

## DUCKS

About ducks 1941 147. Diving ducks 1928 125b/w. Ducks 1928 1b/w\*. Ducks and delinquency 1946 198. Endurances of young ducks 1913 201. Hand-rearing fresh water ducklings 1942 98; 1944 80. Hunting duck eggs on Lake Manitoba 1913 351. Indian ducks 1947 209. Intelligence of ducks 1943 64. Mallards 1937 167. Of New Zealand 1940 142; 1942 86. On keeping oil polluted ducks in captivity 1941 24. Our breeding ducks 1896 160. Perching ducks 1943 60. Points in the rearing of ducks 1940 158. Rare ducks in St. Jame's Park 1931 177. Rearing of young ducks 1913 305b/w. Shovelers 1940 137. Smaller waterfowl 1912 289. Surface-feeding ducks 1928 62\*. Teal 1907 315\*. Teal and Shovelers 1928 86b/w\*. Wild ducks from incubator 1914 64,99,146. HYBRIDS: 1935 78. Brazilian Teal x Carolina Duck 1962 165. Cape Teal x Chestnut Teal 1979 164. Chestnut Teal x Falcated Teal 1931 209. Chiloe Wigeon x Common Mallard 1953 26. Chiloe Wigeon x Eurasian Wigeon 1919 15b/w. Common Goldeneye x Smew 1924 143. Common Mallard x Indian Spotbill 1948 195. Eurasian Wigeon x American Wigeon 1932 158. Falcated Teal x Chestnut Teal 1932 48. Falcated Teal x Gadwall 1933 103. Falcated Teal x Shoveler 1932 48. Goosander x Eider 2008 123-128\*. Hottentot Teal x Carolina Duck 1936 229. Philippine Duck x Australian Black Duck 1933 103. Red-billed Pintail x Cape Teal 1968 104. Red-crested Pochard x Australian Black Duck 1933 103. Rosybill x Common Mallard 1932 158. White-cheeked Pintail x Chilean Teal 1932 158.

**Freckled Duck** *Stictonetta naevosa*

1965 151b/w; 1980 45; 1988 176. Bred 1993 103. Breeding 1994 52. First captive breeding 1987 111. Five pairs to the USA 1996 94. Wild census 1983 236.

**Blue Duck** *Hymenolaimus melacorhynchos*

1933 369-370; 1942 89; 1957 164; 1985 51-52b/w; 1991 158-159; 1993 48. Nesting in captivity 1904 333 (Bred). Note 1947 208-209.

**Falkland Steamer Duck** *Tachyeres brachypterus*

At London Zoo 1927 245-246b/w. At Slimbridge 1995 13-17\*. For the Wildfowl Trust 1952 222,225b/w.

**Torrent Duck** *Merganetta armata*

1939 262-263 (Peruvian Torrent Duck *M. a. leucogenis*). Incident concerning 1953 134 (Peruvian Torrent Duck *M. a. leucogenis*). Raised from wild eggs 1971 38.

**Spur-winged Goose** *Plectropterus gambensis*

Bred 1933 362-363b/w; 1961 199.

**Comb Duck** *Sarkidiornis sylvicola*

Bred 1932 47; 1939 349. Free-winged 1973 72-73. In captivity 1967 197-198b/w. Reared by fosters 1934 30.

**Knob-billed Duck** *Sarkidiornis melanotos*

Bred 1957 61

**Blue-winged Goose** *Cyanochen cyanoptera*

1925 169-171. Bred 1927 224. Breeding Record 1933 101. Note 1932 203-204.

**Egyptian Goose** *Alopochen aegyptiaca*

Bred 1964 74. Nested in church tower 1967 113. Problem with 2007 72.

**Orinoco Goose** *Neochen jubata*

Bred 1909 38; 1947 18. Breeding Record 1934 320. Note 1932 204b/w.

**Andean Goose** *Chloephaga melanoptera*

1911 141b/w; 1921 46-47; 1932 202-203; 1939 259-260b/w. Breeding 1933 434-437b/w.

**Upland Goose** *Chloephaga picta*

Antarctic geese 1913 144-149. Bred 1932 47. Female allowing eggs to cool 1934 191. Goslings dying 1917 291.

**Kelp Goose** *Chloephaga hybrida*

1942 101-102. Bred 1961 191; 1964 179; 1992 196. Colour of Falkland Island geese and their food 1924 86-87; 1939 302-303. For the Wildfowl Trust 1952 220-222.

**Ashy-headed Goose** *Chloephaga poliocephala*

1932 203b/w.

**Ruddy-headed Goose** *Chloephaga rubidiceps*

1913 242-244,244-245; 1915 357\*; 1932 203b/w.

**SHELDUCKS**

1928 60.

HYBRIDS: Common Shelduck x Egyptian Goose 1933 102. Paradise Shelduck x Ruddy Shelduck 1935 118. Radjah Shelduck x Ruddy Shelduck 1932 8.

**Common Shelduck** *Tadorna tadorna*

1902 251-255; 1914 161-162b/w. Breeding 1902 255-256. Free-winged 1973 72. Friendly ducklings 1933 398. Note 1962 178.

**Radjah Shelduck** *Tadorna radjah*

Bred 1946 195. Early Breeding Record 1947 190. Homosexual pairings 1972 24. Longevity, twenty-five years 1972 24. Note 1932 206.

**Ruddy Shelduck** *Tadorna ferruginea*

1932 205. Breeding at Adelaide Zoo 1948 186-187.

- South African Shelduck** *Tadorna cana*  
Longevity, forty-seven years 1975 231. Young plumage of female 1930 338; 1932 205-206.
- Australian Shelduck** *Tadorna tadornoides*  
Behaviour 1939 170,201,202 (Bred). Bred 1939 159-161. Note 1941 137.
- Paradise Shelduck** *Tadorna variegata*  
1911 157-158b/w; 1934 233-235; 1942 88. Bred 1968 70. Eclipse plumage of female 1910 61. Notes 1932 206; 1941 136b/w.
- Crested Shelduck** *Tadorna cristata*  
Sighted 1984 178.
- Pink-eared Duck** *Malacorhynchus membranaceus*  
1965 151b/w; 1980 45. Bred 1981 115-116. Rearing 1980 82-83b/w.
- Salvadori's Teal** *Salvadorina waigiuensis*  
Breeding in New Guinea 1956 89; 1957 36.
- Muscovy Duck** *Cairina moschata*  
Spontaneous variations 1913 82-88,106-108. B/w 1941 136.
- White-winged Wood Duck** *Asarcornis scutulata*  
1911 44; 1941 136-137b/w,143-144; 1956 58; 1972 22-23. At Slimbridge 1973 130; 1975 153-154b/w. Bred 1971 176. Conserving 1985 161. Double-brooded 1975 54. New site found 1996 42. Returned to Thailand 1985 174.
- Hartlaub's Duck** *Pteronetta hartlaubii*  
1951 156; 1972 22b/w. At Slimbridge 1951 197; 1955 29. Bred 1960 70b/w; 1976 113. Breeding 1991 9-12b/w.
- Carolina Duck** *Aix sponsa*  
1904 89-94\*,139-140. Behaviour 1953 28-34. Bred at Knowsley 1947 18. Disposition 1955 114-117. First importation 1935 162. Free-winged 1973 71. \*1945 85.  
HYBRIDS: 1899 73; 1955 30.
- Mandarin Duck** *Aix galericulata*  
1929 152-153. At liberty 1912 122; 1931 58; 1959 93; 1966 141; 1973 70-71. Behaviour 1953 80-88b/w. Disposition 1955 114-117. Free-flying in Scotland 1961 193. In UK 2002 52-58. In-breeding 1982 145-148. Introduced 1987 229-230. Released (Some released in London shot in Hungary) 1931 187-188. Self-reared 1961 60-61. Wild status 1987 175. \*1928 1; \*1945 85; \*1946 167.  
HYBRIDS: 1899 73; 1922 40; 1960 5-8; 1969 34-35.
- Maned Goose** *Chenonetta jubata*  
1917 157-159b/w; 1917 210-211 (Bred); 1932 204b/w. Breeding 1956 158-159; 1958 175-176. Free-winged 1973 71.
- African Pygmy Goose** *Nettapus auritus*  
Bred 1975 114; 1989 105; 1995 43b/w; 1934 102. Breeding 1984 71-73b/w. Imported 1930 194. B/w 1934 102.
- Cotton Pygmy Goose** *Nettapus coromandelianus*  
1901 128-132; 1914 278-279. Breeding 1984 67-70b/w. Imported 1914 258. In captivity 1915 269-270. Note 1941 41. Wild in China 1928 167-168.
- Brazilian Teal** *Amazonetta brasiliensis*  
Fidelity of 1932 168.
- Ringed Teal** *Callonetta leucophrys*  
1922 40-41. Bred 1914 334; 1915 250-251; 1956 57.
- Andean Crested Duck** *Lophonetta specularioides alticola*  
1939 260; 1948 196-199b/w (Bred).
- Patagonian Crested Duck** *Anas specularioides specularioides*  
Bred 1965 21-22.
- Bronze-winged Duck** *Speculanus specularis*  
Bred 1965 22-23b/w; 1980 53.

- Cape Teal** *Anas capensis*  
Breeding 1940 151-153. Four broods in a year 1969 21. Note 1946 194-195.
- Common Gadwall** *Anas strepera strepera*  
Behaviour 1952 179-184b/w.
- Coues's Gadwall** *Anas strepera couesi*  
1943 67-68.
- Falcated Duck** *Anas falcata*  
1901 133. Bred 1917 249-250; 1951 153\*.  
HYBRIDS: Bred but young were hybrids 1917 96,240.
- Chiloe Wigeon** *Anas sibilatrix*  
Behaviour 1953 24-26b/w. \*1928 62.
- Eurasian Wigeon** *Anas penelope*  
1942 61-63\*. Behaviour 1953 24-26b/w.
- American Wigeon** *Anas americana*  
Bred 1907 203. Longevity, twenty-two years old 1928 22.
- African Black Duck** *Anas sparsa*  
Bred 1955 29. Display 1966 157.
- Common Mallard** *Anas platyrhynchos platyrhynchos*  
Behaviour 1951 164-182b/w. Breeding whites from sports 1928 166-168,200-201.  
Mallards 1937 167. Spontaneous variations 1913 82-88,106-108. Unusual nesting sites 1909 243-244b/w; 1913 82,86; 1997 47.
- Greenland Mallard** *Anas platyrhynchos comboschas*  
Bred 1965 170.
- Florida Duck** *Anas fulvigula*  
Bred 1955 29.
- Hawaiian Duck** *Anas wyvilliana*  
1943 69; 1951 42-43; 1951 181. At Litchfield 1959 172-173 (Bred). Bred 1955 29; 1960 69.
- Laysan Duck** *Anas laysanensis*  
1943 68b/w. Population decline 1994 226. Recent history and future 1985 76-78.
- Philippine Duck** *Anas luzonica*  
1952 21-22b/w; 1953 11-12 (Bred). Hatched 1957 197.
- New Zealand Grey Duck** *Anas superciliosa superciliosa*  
1934 235-236; 1940 150-151b/w; 1943 120. Bred 1960 69.
- Pelew Island Grey Duck** *Anas superciliosa pelewensis*  
At Clères 1963 252. Bred 1965 171. USA breeding programme 1997 142.
- Yellow-billed Duck** *Anas undulata*  
Longevity, nearly fifty years old 1966 140 (Corrected to twenty-eight years 175).
- Meller's Duck** *Anas melleri*  
At Jersey Zoo 1994 109. Behaviour 1952 8-9. Bred 1931 349; 1932 8,47. Early Breeding Record 1933 103.
- Blue-winged Teal** *Anas discors*  
Notes on 1915 249-251b/w.
- Cinnamon Teal** *Anas cyanoptera*  
1911 225-226\*; 1914 261-265. Bred 1955 29. Rearing 1951 188-189. \*1928 88.
- Cape Shoveler** *Anas smithii*  
Bred 1955 30. Note 1940 138.
- Red Shoveler** *Anas platalea*  
Breeding Record 1934 321. Note 1940 137.
- Australasian Shoveler** *Anas rhynchotis rhynchotis*  
Note 1940 138.
- New Zealand Shoveler** *Anas rhynchotis variegata*  
1942 86-87. Bred 1936 5.

**Northern Shoveler** *Anas clypeata*

Behaviour 1952 86-89. Note 1940 137. Shovelers 1940 137.

**Madagascar Teal** *Anas bernieri*

At Clères 1929 26; 1936 228. At Jersey Zoo 1994 109. Decline in wild population 1993 217.

**Sunda Teal** *Anas gibberifrons*

1907 315\*. Bred 1956 196 (Australasian Grey Teal *A. g. gracilis*).

**Chestnut Teal** *Anas castanea*

Behaviour 1952 89-94b/w. Bred 1939 87.

**Flightless Teal** *Anas aucklandica*

1940 147-148; 1985 50.

**Campbell Island Teal** *Anas nesiotis*

1985 50; 1993 51.

**Brown Teal** *Anas chlorotis*

1940 142-147b/w; 1985 49-50. Bred 1961 61-62b/w.

**White-cheeked Pintail** *Anas bahamensis*

Behaviour 1952 63-67b/w.

**Red-billed Pintail** *Anas erythrorhyncha*

1934 97b/w. Behaviour 1952 67-68.

**Sharp-winged Teal** *Anas flavirostris oxyptera*

1936 260.

**Chilean Teal** *Anas flavirostris flavirostris*

Behaviour 1952 175-179b/w. Winter brood 1923 62.

**Chilean Pintail** *Anas georgica spinicauda*

1939 260. Behaviour 1951 61-63b/w. Free-winged 1973 71.

**Northern Pintail** *Anas acuta*

Behaviour 1952 10-17b/w.

**Kerguelen Pintail** *Anas eatoni eatoni*

First European import 1951 155-156.

**Garganey** *Anas querquedula*

Behaviour 1952 68-72b/w.

**Baikal Teal** *Anas formosa*

1907 296-297; 1960 165-166. Bred 1959 181; 1960 69. \*1928 88; \*1946 167.

**Eurasian Teal** *Anas crecca crecca*

Behaviour 1952 172-175b/w. Free-flying 1973 72.

**Versicolor Teal** *Anas versicolor versicolor*

1907 317\*. Bred 1936 5; 1938 105. Note 1941 142.

**Puna Teal** *Anas puna*

1939 261.

**Hottentot Teal** *Anas hottentota*

1941 142; 1946 194. Bred 1938 105.

**Marbled Teal** *Marmaronetta angustirostris*

1951 183-184b/w.

**Pink-headed Duck** *Rhodonessa caryophyllacea*

1998 41-42. Arrival 1925 299-300; 1926 325\*. At Calcutta Zoo 1924 31. Generic name 1976 162. In wild and captivity 1974 47-52. Longevity, lived over ten years 1941 141. Notes 1901 132-133; 1947 211; 1968 153. One kept at Berlin Zoo 1977 176-177. "Still common in areas" 1924 30. \*1932 117.

HYBRIDS: Baer's Pochard x Redhead 1932 158. Greater Scaup x Lesser Scaup 1925 149. Red-crested Pochard x Rosybill 1931 209.

**Red-crested Pochard** *Netta rufina*

Bred 1931 191.

**Rosybill** *Netta peposaca*

Behaviour of male 1948 177-180\*.

**Southern Pochard** *Netta erythrophthalma*

Breeding Records 1955 30.

**Canvasback** *Aythya valisineria*

1929 8; 1932 48; 1970 130.

**Hardhead** *Aythya australis*

Bred 1960 69.

**Madagascan Pochard** *Aythya innotata*

Bred 1932 8. Hatched in Madagascar 2012 43. Reared from wild taken eggs 2010 141.

Rediscovered 1993 52. Seen in wild 2006 187.

**Baer's Pochard** *Aythya baeri*

1901 134. Bred 1965 21; 2012 188.

**Ferruginous Duck** *Aythya nyroca*

1908 86-88. Bred 1970 130.

**New Zealand Scaup** *Aythya novaeseelandiae*

1933 355-356; 1940 148-149. Bred 1959 37.

**Ring-necked Duck** *Aythya collaris*

1913 23-24\*. At London Zoo 1912 37, 142b/w. Bred 1941 142.

**Tufted Duck** *Aythya fuligula*

1906 280-282b/w.

**Greater Scaup** *Aythya marila*

1925 148-149 (Bred). \*1968 68.

**Lesser Scaup** *Aythya affinis*

Bred 1940 67; 1957 60.

SEA DUCKS

Rearing young Arctic ducks 1942 64. Sea ducks reared from imported eggs 1940 251.

Some European 1941 123. Thoughts upon sea ducks in captivity 1944 87b/w.

**Steller's Eider** *Polysticta stelleri*

Threat to wild population 1995 89.

**King Eider** *Somateria spectabilis*

1956 58. Breeding at Slimbridge 1961 195-197b/w. Longevity 1978 232.

**Common Eider** *Somateria mollissima*

Bred 1898 198. Experiences with 1958 169-173. Free-winged 1973 71. In captivity

1899 115-116; 1946 173-180b/w. Rearing from imported eggs 1961 203.

**Harlequin Duck** *Histrionicus histrionicus*

1909 55; 1941 125-128.

**Velvet Scoter** *Melanitta fusca*

In captivity 1938 129. Observed inland 1925 158.

**Common Scoter** *Melanitta nigra*

1911 62-63b/w.

**Long-tailed Duck** *Clangula hyemalis*

Breeding 1972 1-4b/w. Eclipse plumage 1948 188-194. Notes on moult 1949 59-62.

**Bufflehead** *Bucephala albeola*

Notes on rearing 1971 58-65b/w.

**Common Goldeneye** *Bucephala clangula*

1914 160-161b/w. Bred 1909 37-38; 1957 60. In captivity 1947 217-223b/w.

**Barrow's Goldeneye** *Bucephala islandica*

In captivity 1939 100-101 (Bred). \*1939 60.

## SAWBILLS

Experiences with keeping 1966 48b/w.

HYBRIDS: Red-breasted Merganser x Goosander 1955 29.

### **Smew** *Mergellus albellus*

1905 120-124. Bred 1957 196-197. Breeding habits in captivity 1939 96-99. Eggs 1905 170. Note 1966 48-50b/w.

### **Hooded Merganser** *Lophodytes cucullatus*

Laid 1960 70. Rearing 1956 181-182; 1962 166-167; 1964 182-184; 1971 58-65b/w.

### **Auckland Islands Merganser** *Mergus australis*

1940 49.

### **Goosander** *Mergus merganser*

Bred 1957 60; 1966 48-50b/w. Note 1900 10-11 (*M. m. orientalis*).

### **Red-breasted Merganser** *Mergus serrator*

1914 319-320b/w; 1966 48-50. At Lilford 1944 86. Bred 1955 30. Hand-rearing 1939 103-104. Reared from wild eggs 1932 47.

### **Scaly-sided Merganser** *Mergus squamatus*

Numbers reduced 1996 42.

### **Black-headed Duck** *Heteronetta atricapilla*

Bred at Slimbridge 1977 171. Hand-raising from wild eggs 1974 165-168b/w.

## *Oxyura*

1943 73.

### **Ruddy Duck** *Oxyura jamaicensis*

1974 132-135b/w. Bred 1947 216. Display and breeding 1938 104-105. Feral population 1976 112. Incubation period 1961 202. Introduced 1987 238. Mutation 1999 113\*. Rearing 1974 237. Threat to White-headed Duck 1993 122-123; 1994 177. UK cull 1999 43.

### **Lake Duck** *Oxyura vittata*

Bred 1968 228.

### **Blue-billed Duck** *Oxyura australis*

1980 44-45. Rearing 1980 84.

### **Maccoa Duck** *Oxyura maccoa*

1965 16-20b/w. Bred 1975 53.

### **White-headed Duck** *Oxyura leucocephala*

Bred 1974 74. Eggs to Hungary 1985 174. Fertile eggs laid at ten months old 1975 232. Notes on keeping 1961 160-161b/w. Threat from Ruddy Duck 1993 122-123.

### **Musk Duck** *Biziura lobata*

1910 94-95b/w; 1939 84-85; 1946 181-182. Newly imported pair 1939 107-109. Rearing 1980 83-84b/w.

## MEGAPODES *Megapodiidae*

1930 319b/w.

### **Australian Brushturkey** *Alectura lathamii*

1904 160-163; 1931 137-138,167-168. Bred 1904 71; 1933 36-37; 1964 221; 1968 4. Breeding 1970 161-163. Hatched 1906 193-194. Hatching at London Zoo 1904 294-297. Nesting habits 1904 217-218; 1905 43,44,83; 1934 193-194b/w. Note 1930 321-322.

### **Black-billed Brushturkey** *Talegalla fuscirostris*

1930 321.

**Malleefowl** *Leipoa ocellata*

1921 19-24; 1931 197 (Been bred). Bred 1991 96. Bred in two collections 1932 120-121. Breeding 1954 130-131. Juvenile mortality 1996 93. Note 1930 320. Wild eggs hatched and reared 1968 31.

**Maleo** *Macrocephalon maleo*

1917 168-170. At Keswick 1931 337. Bred 2000 46; 2002 43. Call 1933 235. Note 1930 322b/w.

**Moluccan Scrubfowl** *Eulipoa wallacei*

Nesting ground rediscovered 1996 42.

**Tabon Scrubfowl** *Megapodius cumingii tabon*

Wild data 1997 114.

**Orange-footed Scrubfowl** *Megapodius reinwardt*

1930 319.

## CHACHALACAS, GUANS AND CURASSOWS *Cracidae*

Cracid Newsletter 1992 136. Cracids at Chester Zoo 1995 204. Curassows and guans 1930 294b/w. Notes on breeding of curassows and guans 1956 150. Species in Mexican collections 1977 51. The *Cracidae* 1979 210b/w. The Curassows (Management and Breeding Records) 1964 123.

**Plain Chachalaca** *Ortalis vetula*

At liberty in San Diego Zoo 1937 138.

**Rufous-headed Chachalaca** *Ortalis erythroptera*

Breeding 1990 174-177.

**White-winged Guan** *Penelope albipennis*

Rediscovered 1980 179. Release 2003 184-186\*.

**White-crested Guan** *Penelope pileata*

Breeding 1956 151-152.

**Blue-throated Piping Guan** *Pipile cumanensis*

Note 1913 211b/w.

**Black-fronted Piping Guan** *Pipile jacutinga*

2004 95-96b/w.

**Wattled Guan** *Aburria aburri*

Bred 1977 52.

**Sickle-winged Guan** *Chamaepetes goudotii*

Bred 1977 52.

**Highland Guan** *Penelopina nigra*

Note 1975 231.

**Horned Guan** *Oreophasis derbianus*

1975 231; 1977 51 (Reared from wild eggs). Status 1984 179.

## CURASSOWS

Yarrell's Curassow *Crax carunculata* Bred 1967 41 (= this species?).

HYBRIDS: *Crax hecki* (Now considered to be female plumage of barred morph of Great Curassow) x Wattled Curassow 1908 348; 1909 23-30b/w. Razor-billed Curassow x Blue-billed Curassow 1964 128.

**Nocturnal Curassow** *Nothocrax urumutum*

Bred 1977 52.

**Crestless Curassow** *Mitu tomentosum*

Bred 1975 74; 1977 52.



**Razor-billed Curassow** *Mitu tuberosum*

Breeding at Antwerp Zoo 1956 150-151; 1964 128-129. Hatched 1942 58. Laid at liberty 1928 4.

**Northern Helmeted Curassow** *Pauxi pauxi*

1909 329; 1975 195-196b/w (Bred). Bred 1977 51.

**Horned Curassow** *Pauxi unicornis*

Breeding 1998 152-156.

**Great Curassow** *Crax rubra*

Bred 1977 52. Rediscovered 1992 136 (*C. r. griscomi*).

**Yellow-knobbed Curassow** *Crax daubentoni*

Booming display 1979 108. Bred 1977 52.

**Black Curassow** *Crax alector*

Bred 1975 74.

**Wattled Curassow** *Crax globulosa*

Bred 1977 52. Early Breeding Record 1926 81.

**Bare-faced Curassow** *Crax fasciolata*

Banded Curassow (*C. f. sclateri*) 1933 136 (Bred). Bred 1958 31; 1970 24; 1975 74.

Breeding at Chester Zoo (*C. f. sclateri*) 1966 168-169b/w. Breeding at Exmoor Zoo

2008 84-89\*b/w.

**Red-billed Curassow** *Crax blumenbachii*

1964 128-129 (Bred). Bred at Chester Zoo 2006 45.

## GUINEAFOWL *Numididae*

1931 13. Of Gambia 1923 169. Request for information 1983 186.

HYBRIDS: 1929 255.

**Helmeted Guineafowl** *Numida meleagris*

1923 169-170. Breeding the Abyssinian Helmeted Guineafowl 1929 3-4.

**Kenya Crested Guineafowl** *Guttera pucherani pucherani*

Bred 1940 6; 1950 186. Breeding 1912 35-37.

**Verreaux's Crested Guineafowl** *Guttera pucherani verreauxi*

1907 365-368b/w; 1923 170-171. Bred 1991 12. Breeding 1996 12-14. Breeding Record 1933 135-136.

**Vulturine Guineafowl** *Acryllium vulturinum*

1915 297-298b/w; 1931 16b/w. Bred 1929 4; 1933 427. Breeding 1969 24-26b/w (Breeding Records). Forty reared 1963 257. Reared to six weeks 1931 57.

## NEW WORLD QUAIL *Odontophoridae*

**Stone Partridge** *Ptilopachus petrosus*

1910 179,275-276; 1923 166-167. Bred 1964 178.

*Dendrortyx*

1961 13.

**Long-tailed Wood Partridge** *Dendrortyx macroura*

Bred 1977 51.

## AMERICAN QUAIL

Hatching Plumbeous Quail 1922 140. Quails 1912 78; 1930 50; 1979 216b/w. Thoughts on the dietary requirements and keeping and breeding 2012 145-149.

HYBRIDS: 1918 111; 1930 64; 1961 12; 1962 15. Scaled Quail x Gambel's Quail 1953 105.

### **Mountain Quail** *Oreortyx pictus*

1961 14-15. Breeding 1938 275.

### **Scaled Quail** *Callipepla squamata*

Bred 1906 117-118; 1913 39-40. Note 1961 17-18. Serious decline 2001 49. B/w 1979 219.

### **Elegant Quail** *Callipepla douglasii*

Bred 1912 342-343; 1947 163. Note 1961 16-17.

### **Californian Quail** *Callipepla californica*

1909 145-147b/w; 1964 1-2\*. Bred 1901 81; 1902 136-140b/w, 148; 1927 87-88; 1937 307. Cock brooding 1930 274-277. Introduced to Tahiti 1940 169. Note 1961 15-16. B/w 1979 219.

### **Gambel's Quail** *Callipepla gambelii*

Bred 1920 193; 1921 107. Note 1961 16. B/w 1979 218.

### **Banded Quail** *Philortyx fasciatus*

Nesting of American Barred Partridge (Eggs) 1928 46-47. Note 1961 18.

## *Colinus*

1962 15.

### **Northern Bobwhite** *Colinus virginianus*

American Bobwhite 1906 164-167. Behavioural aspects 1975 163-168b/w; 1979 218b/w. Serious decline 2001 49. *C. v. cubanensis*: Breeding Cuban Colin 1911 369. Breeding Cuban Tree Quail 1931 67-69. *C. v. pectoralis*: Breeding Mexican Black-breasted Quail 1918 114-116b/w. *C. v. ridgwayi* 1984 123.

### **Yucatan Bobwhite** *Colinus nigrogularis*

Bred 1912 343.

### **Spot-bellied Bobwhite** *Colinus leucopogon*

Bred 1911 5.

## *Odontophorus*

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### **Marbled Wood Quail** *Odontophorus gujanensis*

Bred 1930 25. Breeding Record 1933 136.

### **Spot-winged Wood Quail** *Odontophorus capueira*

Bred 1964 178; 1966 28. Observations on breeding 1970 1-2\*.

### **Singing Quail** *Dactylortyx thoracicus*

1962 18.

### **Montezuma Quail** *Cyrtonyx montezumae*

1962 18-19. Bred 1918 111-113. Dietary when breeding 2012 6-118.

### **Ocellated Quail** *Cyrtonyx ocellatus*

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### **Tawny-faced Quail** *Rhynchortyx cinctus*

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### **Dusky Grouse** *Dendragapus obscurus*

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### **Rock Ptarmigan** *Lagopus muta*

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### **Red Grouse** *Lagopus lagopus scotica*

Aggressive male 1997 187. In confinement 1912 92-96. Reared under bantam 1933 131. Rearing in captivity 1969 256-261b/w.

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Bred 1909 294. Notes on 1909 252-255; 1970 196-197. Reared from wild eggs 1955 328.

### **Himalayan Snowcock** *Tetraogallus himalayensis*

1963 157-159b/w. Imported by the World Pheasant Association 1980 N/L.

### **Tibetan Snowcock** *Tetraogallus tibetanus*

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## *Alectoris*

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### **Rock Partridge** *Alectoris graeca*

Bred 1964 7. Reared from imported eggs 1962 5.

### **Chukar Partridge** *Alectoris chukar*

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### **Philby's Partridge** *Alectoris philbyi*

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### **Barbary Partridge** *Alectoris barbara*

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### **Red-legged Partridge** *Alectoris rufa*

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### **Arabian Partridge** *Alectoris melanocephala*

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### **See-See Partridge** *Ammoperdix griseogularis*

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**Sand Partridge** *Ammoperdix heyi*

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**Grey Francolin** *Francolinus pondicerianus*

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**Swamp Francolin** *Francolinus gularis*

Bred 1964 178.

**Latham's Francolin** *Peliperdix lathamii*

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**Coqui Francolin** *Peliperdix coqui*

Bred 1949 161.

**White-throated Francolin** *Peliperdix albogularis*

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**Red-winged Francolin** *Scleroptilia levaillantii*

Bred 1949 161.

**Crested Francolin** *Dendroperdix sephaena*

Bred 1920 192-193 (Shoa Crested Francolin *D. s. spilogaster*); 1995 181. Breeding 1927 220-221b/w (Shoa Crested Francolin).

**Ahanta Francolin** *Pternistis achantensis*

1923 129-130.

**Hildebrandt's Francolin** *Pternistis hildebrandtii*

1928 82-83.

**Double-spurred Francolin** *Pternistis bicalcaratus*

1923 126-128. Breeding Record 1933 132.

**Clapperton's Francolin** *Pternistis clappertoni*

Bred 1964 178.

**Erckel's Francolin** *Pternistis erckelii*

Bred 1963 170.

**Red-billed Francolin** *Pternistis adspersus*

Breeding 1964 72-73.

**Natal Francolin** *Pternistis natalensis*

Breeding 1964 146-147.

**Yellow-necked Spurfowl** *Pternistis leucoscepus*

Breeding 1905 352-355b/w. Gray's Bare-throated Francolin 1904 325-327 (Eggs).

**Red-necked Spurfowl** *Pternistis afer*

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**Grey Partridge** *Perdix perdix*

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**Daurian Partridge** *Perdix daurica*

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**Long-billed Partridge** *Rhizothera longirostris*

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**Madagascan Partridge** *Margaroperdix madagarensis*

Bred 1933 127-128. Rearing 1931 304-305.

**Black Partridge** *Melanoperdix niger*

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*Coturnix*

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**Common Quail** *Coturnix coturnix*

1911 124-126; 1923 167-169 (African Quail *C. c. africana*). Bred 1965 28. Protection 1911 73-74.

**Japanese Quail** *Coturnix japonica*

Breeding behaviour 1970 177-179b/w. Quail breeding in Japan 1921 24-28; 1962 114.

**Rain Quail** *Coturnix coromandelica*

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**Harlequin Quail** *Coturnix delegorguei*

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**Stubble Quail** *Coturnix pectoralis*

Bred 1966 30.

**Brown Quail** *Coturnix ypsilophora*

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**King Quail** *Excalfactoria chinensis*

1898 1-3\*; 1962 24-26. Behaviour and care 1996 103-105. Breeding 1899 1-2; 1900 2; 1956 214-216; 1957 21-22. Breeding behaviour 1962 143-145. Breeding in California 1958 38. Egg-rolling behaviour 1965 127-130b/w. Fertile eggs at four months old 1965 173. Further behaviour notes 1973 136-139. Hen assumes male plumage 1910 196-197. Inter-specific allopreening 1968 83-84. Nesting activity, vocalisation and egg-laying 2009 161-168b/w. Nesting notes 1898 200, 211-212. Notes on 1904 311-314b/w; 1974 121-122. Notes on behaviour and call 1968 7-10, 11-12. Parent-reared 1998 6. Personal observations 1966 112-114, 170. Plumage of buff variety 1973 73-74. Plumage pattern and behaviour 1965 176-184b/w.

**Blue Quail** *Excalfactoria adansonii*

Becoming rare 1996 142.

*Perdicula*

UK First Breedings 1982 173.

**Jungle Bush Quail** *Perdicula asiatica*

Breeding 1909 234-235; 1965 2-3.

**Rock Bush Quail** *Perdicula argoondah*

Bred 1911 52; 1931 301-302.

**Udzungwa Forest Partridge** *Xenoperdix udzungwensis*

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**Hill Partridge** *Arborophila torqueola*

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- Rufous-throated Partridge** *Arborophila rufogularis*  
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- Orange-necked Partridge** *Arborophila davidi*  
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- Ferruginous Partridge** *Caloperdix oculeus*  
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- Mountain Bamboo Partridge** *Bambusicola fytchii*  
Bred 1931 178; 1932 317-318. Note 1934 160.
- Chinese Bamboo Partridge** *Bambusicola thoracicus*  
Bred 1906 174. Breeding 1930 289; 1932 207-209. Released in USA 1967 147.
- Red Spurfowl** *Galloperdix spadicea*  
Bred 1964 179.
- Painted Spurfowl** *Galloperdix lunulata*  
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- Blood Pheasant** *Ithaginis cruentus*  
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- Western Tragopan** *Tragopan melanocephalus*  
Captive status 1985 104. Rare but bred formerly 1930 234; 1979 200.
- Satyr Tragopan** *Tragopan satyra*  
1927 193; 1937 275-276; 1938 1\*; 1979 201-203b/w. Bred 1932 270-271; 1937 126; 1940 190-191. Bred in immature plumage 1972 106b/w. Call 1910 225-226. Care and breeding 1961 19-20. Chicks 1920 117. Display 1912 153-155b/w; 1927 193-194. B/w 1962 20; 1966 54.
- Blyth's Tragopan** *Tragopan blythii*  
Bred 1936 4; 1940 68. Breeding Record 1933 132. Captive status 1985 103. Notes 1940 189-190; 1979 200b/w.
- Temminck's Tragopan** *Tragopan temminckii*  
Bred 1937 126; 1940 68. Breeding 1959 146-148. Longevity, fourteen years 1963 133. Notes 1940 210-211; 1979 203-204b/w. Tame tragopan 1950 176-177. Tragopan episode 1947 131-132. Wild 1937 44. \*1940 1.
- Cabot's Tragopan** *Tragopan caboti*  
1940 185-186\*; 1963 1-2\*. Bred 1902 73. Breeding 1933 24-27. Captive status 1985 104. First USA imports for twenty years 1995 45. Notes 1940 211; 1979 200-201b/w. Studbook 1980 N/L. Wattle of 1919 148-150. \*1994 90.

**Koklass Pheasant** *Pucrasia macrolopha*

Bred 1937 126; 1940 189; 1960 251; 1963 7b/w; 1979 191.

**MONALS**

1976 85b/w.

**Himalayan Monal** *Lophophorus impejanus*

1912 150-151; 1918 299-300. Bred 1931 99; 1940 191. Bred at Knowsley 1947 17.

Display 1909 160. Impeyan notes 1951 96-97. Note 1905 209. B/w: 1966 54; 1976 85.

**Sclater's Monal** *Lophophorus sclateri*

Captive status 1985 107.

**Chinese Monal** *Lophophorus lhuysii*

1940 212; 1960 130. Bred 1984 178. Captive status 1985 107.

**JUNGLEFOWL**

1928 136,199.

HYBRIDS: Grey Junglefowl x Domestic Breeds 1952 136; 1953 100; 1954 15,223.

Grey Junglefowl x Green Junglefowl 1931 177. Grey Junglefowl x Red Junglefowl 1932 256.

**Red Junglefowl** *Gallus gallus*

Bred 1931 100; 1963 7; 1964 7. Breeding programme 2004 44. Call 1928 167,200.

Further notes 1928 199-200. Identity of 1993 76-78b/w.

**Grey Junglefowl** *Gallus sonneratii*

Bred 1909 37; 1931 100; 1932 101; 1940 38-39.

**Sri Lanka Junglefowl** *Gallus lafayettii*

1959 61-66\*. Bred 1928 225. Breeding Record 1933 134. Notes 1928 137; 1929 197.

Poem 1928 144.

**Green Junglefowl** *Gallus varius*

Bred 1936 124; 1992 39.

*Lophura*

1949 213. Kalij and other pheasants 1918 295.

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**White-crested Kalij** *Lophura leucomelanos hamiltonii*

Breeding Record 1933 133.

**Black Kalij** *Lophura leucomelanos moffitti*

1941 1-3\*.

**Black-breasted Kalij** *Lophura leucomelanos lathamii*

Bred 1940 38; 1951 5.

**Silver Pheasant** *Lophura nychthemera*

Aggression 1923 39. Bred 1932 7 (*L. n. lewisi*). Longevity, twenty-one years 1963 133.

Variations 1905 102-106,143-144. \*1930 196.

**Imperial Pheasant** *Lophura imperialis*

Arrival 1924 295. Bred 1932 7; 1937 126; 1976 54. Breeding Record 1949 65. Captive status 1985 109.

**Edwards's Pheasant** *Lophura edwardsi*

1943 1-2\*. Bred 1936 124. Captive status 1985 108. Census 1992 41. Note 1940 187.

Returned to Vietnam 1994 176. B/w 1977 166. \*1930 235.

**Vietnamese Pheasant** *Lophura hatinhensis*

1999 92. Bred 1997 44; 2002 25\*,34.



**Swinhoe's Pheasant** *Lophura swinhoii*

1961 1-2\*; 1968 77-80\*.

**Salvadori's Pheasant** *Lophura inornata*

Early import into France 2005 94.

**Crestless Fireback** *Lophura erythrophthalma*

Bred 1936 123; 1999 81b/w.

**Vieillot's Crested Fireback** *Lophura ignita rufa*

1956 199-200\*. Bred 1953 174. \*1994 90.

**Bornean Crested Fireback** *Lophura ignita ignita*

Notes on chicks hatched 1932 218-219.

**Siamese Fireback** *Lophura diardi*

Breeding Record 1933 133. Note 1940 187. \*1930 170.

**Bulwer's Pheasant** *Lophura bulweri*

Call 2001 43. Captive status 1985 107-108. Display 1930 213; 1938 177-180\*; 1940 68-69; 1944 61-62. Imported 1929 326. Research 2000 46. Twenty-five infertile eggs 2001 141.

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1933 220-225b/w; 1947 128-131. Sexing Eared Pheasants 1976 39b/w.

HYBRIDS: Blue Eared Pheasant x Brown Eared Pheasant 1932 7. Blue Eared Pheasant x White Eared Pheasant 1950 65. White Eared Pheasant x Brown Eared Pheasant 1947 131.

**White Eared Pheasant** *Crossoptilon crossoptilon*

Bred 1942 44; 1970 251. Captive status 1985 106. Notes 1937 125; 1942 146-147; 1950 102; 1960 131b/w; 1974 137. Status in wild 1937 41.

**Brown Eared Pheasant** *Crossoptilon mantchuricum*

Captive status 1985 106-107.

**Blue Eared Pheasant** *Crossoptilon auritum*

Breeding 1933 388-389. Early importations 1930 145; 1933 423-425; 1947 142. Notes 1930 144-145; 1933 222-224,385; 1937 42-43. Sexing 1976 39-50b/w. Story of 1957 52-57; 1958 1-2\*.

**Cheer Pheasant** *Catreus wallichii*

Bred in America 1936 123. Captive status 1985 106. Previous Breeding Record 1936 93. Reintroduced to wild 1979 230; 1989 46. Stress Management as an important factor in breeding 2005 83-90. Successful breeding 1936 27-29.

**Elliot's Pheasant** *Syrmaticus ellioti*

1940 187-188; 1962 1-2\*. Captive status 1985 105.

**Mrs Hume's Pheasant** *Syrmaticus humiae*

Breeding 1963 22-23. Captive status 1985 105.

**Mikado Pheasant** *Syrmaticus mikado*

1938 331\*. Bred 1915 265-266\*; 1936 126; 1940 191. Captive status 1985 104-105.

**COPPER PHEASANTS**

Bred at Leckford 1940 218.

**Scintillating Copper Pheasant** *Syrmaticus soemmerringii scintillans*

1936 151-152\*.

**Soemmerring's Copper Pheasant** *Syrmaticus soemmerringii soemmerringii*

Bred 1932 7.

**Ijima Copper Pheasant** *Syrmaticus soemmerringii ijimae*

1937 95\*. Breeding 1967 8-9.

**Reeves' Pheasant** *Syrnaticus reevesii*

In Australia 1929 302-304. Longevity, twenty-seven years 1963 133. Pheasant and Jay 1911 81. Wild 1940 209.

**Common Pheasant** *Phasianus colchicus*

Aberrant plumages in covert pheasants 1961 21-25b/w. About Blacknecks 1947 133. Curious behaviour of hen 1932 12-13. History of introduction to UK 1937 99-103,188-194b/w. Mutant pheasant 1932 233-235\*. Notes 1949 221-222; 1990 43-50. Possible origin source of melanism 1932 131,167,230. Reversion of mutant 1929 195. The Royal pheasant 1910 227b/w. Wild 1917 310. Wild game pheasant 1943 110-111.

**Green Pheasant** *Phasianus versicolor*

Early import record 1947 19. Note 1939 203. Where are they? 1939 142,172.

**Golden Pheasant** *Chrysolophus pictus*

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**Lady Amherst's Pheasant** *Chrysolophus amherstiae*

1949 197-198b/w\*. Display 1912 237\*. Experiences with 1937 329. First imports 2004 185. Introduced 1987 233-234. Longevity, twenty-one years 1963 132. Note 1960 131b/w. Sexing young birds 1901 107. The mutation *obscurus* 1949 209. Wild in Devon 1960 252.

**PEACOCK-PHEASANTS**

Breeding data 1973 216. Hong Kong Zoo's Breeding Record 1980 51.

**Bronze-tailed Peacock-Pheasant** *Polyplectron chalcurum*

Bred at Clères 1933 35. Imported 1930 308.

**Mountain Peacock-Pheasant** *Polyplectron inopinatum*

Bred 1936 126,363; 1993 104; 1995 75-77. Donation 1992 84.

**Germain's Peacock-Pheasant** *Polyplectron germaini*

Breeding data 1973 216-218. Commonly bred 1936 124.

**Grey Peacock-Pheasant** *Polyplectron bicalcaratum*

1940 18-19. Bred 1932 6,101. Breeding data 1973 216-218. Commonly bred 1936 124. Display 1911 229-237b/w; 1912 169b/w. Twelve reared 1972 28.

**Malayan Peacock-Pheasant** *Polyplectron malacense*

Bred 1968 226. Breeding at Bronx Zoo 1977 61-62b/w.

**Palawan Peacock-Pheasant** *Polyplectron napoleonis*

Bred 1930 334; 1940 68. Breeding at Jersey Zoo 1975 8-12b/w. Breeding data 1973 216-218. Breeding Record 1933 135. Captive status 1985 109. Display 1939 233-235. Hong Kong Zoo's Breeding Record 1980 52. Note 1965 12-13.

**Crested Argus** *Rheinardia ocellata*

At London Zoo 1928 163. Note 1939 311\*. Bred 1932 6; 1937 126; 1945 27. Breeding 1936 176-180b/w. Breeding in Japan 1929 307-309b/w. Captive status 1985 109. Chick escaped when quite large 1940 68,218. Display 1930 212-213b/w; 1932 122-123b/w. Seven imported to Europe 1926 194.

**Great Argus** *Argusianus argus*

1925 175-179b/w. Bred 1903 216; 1936 129; 1996 140. Gray's Argus *Argusianus argus grayi* imported 1929 326. Keeping and breeding 1977 170.

## *Pavo*

1940 204b/w; 1946 113; 1961 25.

### **Blue Peafowl** *Pavo cristatus*

As pet 1937 21-25. B/w 1940 204.

### **Black-shouldered Peafowl** *Pavo cristatus* mutation *nigripennis*

Notes 1913 330-331.

### **White Peafowl** *Pavo cristatus* mutation

Concerning 1944 10-12. Of Ahmedabad, India 1965 37-39b/w.

### **Green Peafowl** *Pavo muticus*

Bred 1957 138; 1961 171. Captive status 1985 108-109. Recolonising 1996 142. White mutation 1975 73.

### **Congo Peafowl** *Afropavo congensis*

Breeding 1961 41-42b/w\*; 1979 160-161. Collecting 1951 206-221; 1952 46.

Distribution extension 1996 43. In captivity 1942 123-124 (Hatched in Congo) 1949 208b/w. Notes 1965 158; 1968 226.

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## **PENGUINS** *Spheniscidae*

1929 14b/w. At Edinburgh Zoo 1945 83; 1962 150; 1965 135; 1967 132. Colony death 1999 142. In captivity 1983 189b/w. In wild and captivity 1954 132b/w. New penguin development 2000 85. Of Macquarie Island 1920 86b/w. Penguin pool at Chester Zoo 1967 169. Planet Penguin 2000 86. Thiamine deficiency in diet 1978 115.

HYBRIDS: Adelie Penguin *Pygoscelis adeliae* x Gentoo Penguin 1968 151.

### **King Penguin** *Aptenodytes patagonicus*

At London Zoo 1900 13. Bred at London Zoo 1952 190. Bred at St Louis Zoo 1978 175. Breeding notes 1954 146. Breeding Records 1934 323. Expedition to collect eggs 1998 169-179b/w\*. Longevity, fifteen years and ten months 1972 212. Note 1954 179-180. Reared from wild collected eggs 1998 139. Rearing in captivity 1960 19-20b/w. Weight data 1952 229.

### **Emperor Penguin** *Aptenodytes forsteri*

Bred 1981 61. In Europe 1933 169-170.

### **Gentoo Penguin** *Pygoscelis papua*

Bred 1940 286; 1970 166. Note 1959 140-141; 1969 148.

### **Chinstrap Penguin** *Pygoscelis antarcticus*

Hatched 1945 84.

### **Macaroni Penguin** *Eudyptes chrysolophus*

Bred at Edinburgh Zoo 1945 84; 1952 78.

### **Yellow-eyed Penguin** *Megadyptes antipodes*

1934 227-228. Increase in wild population 1993 217.

### **Little Blue Penguin** *Eudyptula minor*

1934 138-139; 1950 252-253b/w; 1970 21-24b/w.

### **African Penguin** *Spheniscus demersus*

1918 141-142b/w; 1918 142-143. Albino 2003 46. Bred at Adelaide Zoo 1942 58; (Again 1943 27). Breeding at Berlin Zoo 1974 192. Breeding Record 1934 323. Continued support 2012 179. Declining populations 1980 179. Hatched 1906 315. Longevity, fourteen-and-a-half years 1972 212. Note 1958 86,87.

**Magellanic Penguin** *Spheniscus magellanicus*

Bred 1951 148; 1968 223.

**Humboldt Penguin** *Spheniscus humboldti*

At Cotswold Wildlife Park 1995 132-134. Breeding and rearing 1987 61-72b/w.

Breeding at Berlin Zoo 1974 192. Effects of Vitamins A and E on fertility 2001 167 176.

**Galapagos Penguin** *Spheniscus mendiculus*

1936 184-185b/w (Laid). Hatched 1947 76-77.

## **ALBATROSSES** *Diomedidae*

Experiences with captive 1973 213.

**Waved Albatross** *Phoebastria irrorata*

"Albie" 1969 235-237\*. Longevity, four years in captivity 1937 290.

**Amsterdam Island Albatross** *Diomedea amsterdamensis*

Discovered 1983 238.

**Black-browed Albatross** *Thalassarche melanophris*

1973 65.

## **NORTHERN STORM PETRELS** *Hydrobatidae*

**European Storm Petrel** *Hydrobates pelagicus*

Captive notes 1912 111-113. Nesting notes 1897 41-45b/w (Wild). Nocturnal frolics 1915 79. Origin of "Mother Carey's Chicken" 1968 226.

## **PETRELS AND SHEARWATERS** *Procellariidae*

Shearwaters in confinement 1925 151. Species separation in petrels 1983 238.

**Southern Giant Petrel** *Macronectes giganteus*

Kept for over a year 1973 65.

**Northern Fulmar** *Fulmarus glacialis*

1919 2-4b/w.

**Bermuda Petrel** *Pterodroma cahow*

Hand-reared 1973 64-65.

**Black-capped Petrel** *Pterodroma hasitata*

1930 156-157.

**Cook's Petrel** *Pterodroma cookii*

1934 128-130.

**Sooty Shearwater** *Puffinus griseus*

1935 34-37.

**Short-tailed Shearwater** *Puffinus tenuirostris*

Laid 1973 67. The Mutton Bird of Australia 1902 198-199.

**Flesh-footed Shearwater** *Puffinus carneipes*

1934 139-142.

**Manx Shearwater** *Puffinus puffinus*

Nocturnal frolics 1915 79. Note 1954 20-21.

**Tropical Shearwater** *Puffinus bailloni*

Discovered 1996 43.

**Heinroth's Shearwater** *Puffinus heinrothi*

Rediscovery 1980 N/L.

## GREBES *Podicipedidae*

1929 16. Difficulty of keeping in captivity 1956 155. Notes 1899 102. Notes on Indian grebes 1907 65.

### **Little Grebe** *Tachybaptus ruficollis*

1899 104-107; 1907 69-72. Life of Moses 1943 33-39. Nesting habits 1907 376.

### **Great Crested Grebe** *Podiceps cristatus*

1899 103-104; 1907 65-68b/w. Studies 1955 3-13b/w, 93-102b/w, 131-146b/w, 181-201b/w, 235-251b/w, 294-316b/w. The inquiry 1933 28-29.

### **Black-necked Grebe** *Podiceps nigricollis*

1899 104; 1907 68-69; 1956 155-157.

### **Colombian Grebe** *Podiceps andinus*

Gravely endangered 1984 125.

### **Hooded Grebe** *Podiceps gallardoi*

Endangered 1985 175.

## FLAMINGOS *Phoenicopteridae*

1914 287b/w\*. At Berlin Zoo 1975 170. At Whipsnade 1998 100. Breeding 1977 108. Breeding and management at Chester Zoo 1989 51b/w. Breeding at Slimbridge (Summary of species and numbers reared) 1973 84. Colour feeding 1960 48. Escapee recaptured 1910 101. Hardiness 1922 26. Hatched at Basle Zoo 1958 174. Keeping and breeding at Slimbridge 1970 18b/w. New husbandry guidelines 2005 183. New ration for 1959 108b/w. Plumage fungal infections 1973 163b/w. Soda extraction threat 1994 107. Specialist group 2006 46.

### **Greater Flamingo** *Phoenicopterus roseus*

1975 170-171b/w. Breeding 2006 71-74\*. Breeding at Berlin Zoo 1963 254. Rescue operation 1964 33. Successful breeding in a small colony 1995 52-57.

### **American Flamingo** *Phoenicopterus ruber*

Best results in sixteen years 1999 96. Bred 1970 19-20. Breeding 1939 363-365. Early weaning of hand-reared 1996 15-17. Eggs collected from Hialeah racecourse 2002 193. New lagoon exhibit 2003 94.

### **Chilean Flamingo** *Phoenicopterus chilensis*

Aged 2008 (1)ibc. Bred 1965 190. Breeding at Berlin Zoo 1975 170-171b/w. Egg management 1995 30. Longevity, fifty-one years old 1999 45. Notes on the Argentine Flamingo 1934 80-82.

### **Lesser Flamingo** *Phoeniconaias minor*

1914 287-288b/w\*. Bred 1999 45. Breeding 1997 175-181b/w\*; 2000 126-128b/w. Health monitoring of wild population 2005 143. Longevity 2004 46, 2013 142, 2014 39. Problems in the wild 2006 187. Prolific breeders 2006 187.

### **Andean Flamingo** *Phoenicoparrus andinus*

Bred 1970 20b/w; 1999 96. Breeding at Berlin Zoo 1976 176.

### **James's Flamingo** *Phoenicoparrus jamesi*

Expedition to collect 1960 25.

## STORKS *Ciconiidae*

Reflections on 1955 202.

HYBRIDS: Intergeneric hybrid 1943 141-144b/w (Painted Stork x Lesser Adjutant Stork).

**Wood Stork** *Mycteria americana*

Breeding Record 1934 321.

**Milky Stork** *Mycteria cinerea*

1990 188. Twenty-five bred 1996 91.

**Yellow-billed Stork** *Mycteria ibis*

1995 80.

**Painted Stork** *Mycteria leucocephala*

Colour development 1919 140-141b/w; 1966 123. Hatched in large numbers 2008 186.

**Asian Openbill** *Anastomus oscitans*

Bred 2001 142. "Shell Ibis" 1916 264. B/w 1919 139.

**African Openbill** *Anastomus lamelligerus*

Bred 2001 142. \*2010 25.

**Black Stork** *Ciconia nigra*

Being hand-reared 2012 188.

**Abdim's Stork** *Ciconia abdimii*

Bred 1995 135.

**Woolly-necked Stork** *Ciconia episcopus*

Bred 1998 93.

**Storm's Stork** *Ciconia stormi*

Bred 2001 185. Breeding 2004 46-47. Nesting in Thailand 1988 108.

**White Stork** *Ciconia ciconia*

1902 10; 1911 40. "Agrippa" 1913 301-302. Bred 1903 183; 1968 62; 1975 40;

Hatched 1911 241; 1974 161. Incubation period 1929 249. Wild 1990 105-114.

**Oriental Stork** *Ciconia boyciana*

Captive management 1985 92-101b/w; 1988 108. Keeping 1982 127-128b/w.

Longevity, thirty years 1963 254. Population census 1965 134. Possible reintroduction

1996 92. Returned to Korea 1998 140.

**Saddle-billed Stork** *Ephippiorhynchus senegalensis*

1927 209. First world breeding 2006 92. Reproduction and development 2010 100-108\*.

**Jabiru** *Jabiru mycteria*

1920 114b/w. Captive status 2010 45.

**Lesser Adjutant** *Leptoptilos javanicus*

2000 46. Bred at the Bronx Zoo 2004 45.

**Greater Adjutant** *Leptoptilos dubius*

Population decline 1991 41.

**Marabou Stork** *Leptoptilos crumenifer*

Breeding 2012 83-88. Longevity 1968 102. Preliminary findings on reproduction of 2005 56-63b/w.

## IBISES AND SPOONBILLS *Threskiornithidae*

Captive breeding programme for endangered species 1985 117. Sun-bathing behaviour 1982 96b/w.

HYBRIDS: American White Ibis x Sacred Ibis 1933 104. American White Ibis x Straw-necked Ibis 1966 29. Black-headed Ibis x Spoonbill *Platalea spp.* 1933 104.

Black-headed Ibis x Straw-necked Ibis 1970 204. Roseate Spoonbill x Scarlet Ibis 1973 143 (Sitting). Straw-necked Ibis x Black-headed Ibis 1913 290 (Hatched).

**Sacred Ibis** *Threskiornis aethiopicus*

1906 275-276b/w; 1921 106-107 (Hatched). Escapee in UK 2002 143. Population explosion 1992 86.

**Blue-eyed Ibis** *Threskiornis bernieri*

Hatched 2007 177.

**Black-headed Ibis** *Threskiornis melanocephalus*

Bred 1951 65; 1970 204. Notes 1917 146. Victim of fashion 1908 178.

**Red-naped Ibis** *Pseudibis papillosa*

1908 44.

**Giant Ibis** *Pseudibis gigantea*

New population found 2003 91. Rediscovered 1994 54.

**Northern Bald Ibis** *Geronticus eremita*

Bred 1958 175. Colony management 1993 95-96. Hand-reared 1966 127. Mysterious wild deaths 1996 93. Tracking 2007 187.

**Southern Bald Ibis** *Geronticus calvus*

Bred 1998 93; 2001 142. Breeding at Exmoor Zoo 2014 33-38. Hand-reared 2002 97.

**Crested Ibis** *Nipponia nippon*

Discovered in China 1982 123. Last Japanese bird died twenty-six years old 1996 42 (Longevity). Note 1982 172. Project 1987 112.

**Hadada Ibis** *Bostrychia hagedash*

1927 208-209. Breeding 1993 52-53.

**Buff-necked Ibis** *Theristicus caudatus*

Breeding at Blackbrook Zoological Park 2012 1-5\*.

**Black-faced Ibis** *Theristicus melanopis*

1917 146-146b/w (Bred); 2002 110-112b/w.

**American White Ibis** *Eudocimus albus*

Bred 1903 111. Note 1968 62b/w.

**Scarlet Ibis** *Eudocimus ruber*

Attempted introduction to Florida 1968 72. Bred 1968 220; 1972 29; 1975 39. Breeding 1969 165-167b/w; 1991 25-27b/w; 2002 165-169\*. Colour in confinement 1921 75,95. Hand-rearing 1983 215-217; 1988 96-100. Partially reared Sacred Ibis 2002 59-62.

**Glossy Ibis** *Plegadis falcinellus*

1915 112-113; 1917 42-43. Bred 1900 185. Breeding Record 1934 321. Occurrence in Ireland 1906 363.

**White-faced Ibis** *Plegadis chihi*

Hatched 1968 220.

**Puna Ibis** *Plegadis ridgwayi*

Hand-rearing 1999 65-72.

**Madagascan Crested Ibis** *Lophotibis cristata*

2001 142. Bred 2002 90; 2003 89.

**Eurasian Spoonbill** *Platalea leucorodia*

1918 65-67b/w; 1919 5-6. Bred 1974 198; 1993 67.

**Black-faced Spoonbill** *Platalea minor*

Population decline 1991 41.

**African Spoonbill** *Platalea alba*

Bred 2002 97. Breeding 1993 66-71b/w.

**Roseate Spoonbill** *Platalea ajaja*

Hand-rearing 1979 23-25.

## HERONS, BITTERNS AND EGRETS *Ardeidae*

### BITTERNS AND HERONS

1896 1; 1902 115; 1919 85b/w.

HYBRIDS: Black-crowned Night Heron x Little Egret 1939 132. Nankeen Night Heron x Great Egret 1949 181.

### **Boat-billed Heron** *Cochlearius cochlearius*

Breeding at Berlin Zoo 1938 101-102. Breeding Record 1968 220. Notes 1924 163-166.

### **Zigzag Heron** *Zebrius undulatus*

2000 49-50.

### **European Bittern** *Botaurus stellaris*

1896 1-2. Breeding in Norfolk 1918 56-58b/w. Captive notes 1982 124-125. Notes 1919 6-7; 1920 104-106; 1922 39-40.

### **American Bittern** *Botaurus lentiginosus*

In captivity 1916 88-90. Note 1918 58.

### **Von Schrenck's Bittern** *Ixobrychus eurhythmus*

Wild data 1997 115.

### **Black-capped Night Heron** *Nycticorax nycticorax*

At liberty in Edinburgh Zoo 1964 227; 1980 184-185. Bred 1934 191. Notes on hand-rearing 1993 198-202. Remarks 1922 92-93.

### **Nankeen Night Heron** *Nycticorax caledonicus*

Bred 1976 217 (*N. c. manillensis*). HYBRIDS: 1956 40.

### **Yellow-crowned Night Heron** *Nyctanassa violacea*

1930 132-134.

### **Green Heron** *Butorides virescens*

1930 151-152.

### **Javan Pond Heron** *Ardeola speciosa*

World first breeding 2004 92.

### **Western Cattle Egret** *Bubulcus ibis*

Bred 2002 97. Breeding 1964 21-22; 1964 222-223; 1966 45-46. Buff-backed Heron 1920 138-140. Liberty 1930 120,248; 1930 44-45 (Hatched). Note 1968 62.

### **Grey Heron** *Ardea cinerea*

"British Birds": Report on Heronries reviewed 1929 167. Note 1979 169.

### **Great Blue Heron** *Ardea herodias*

HYBRIDS: Sub-specific hybrid 1933 104.

### **Purple Heron** *Ardea purpurea*

1896 1-4.

### **Great Egret** *Ardea alba*

1902 117. Eating sparrows 1923 173-174.

### **Capped Heron** *Ptilerodius pileatus*

Bred 1972 68. Display 1931 250.

### EGRETS

1902 117; 1928 68. Breeding for plumes 1903 370. Curious attitudes 1919 46. Farming plumes 1968 91. Fashion victims 1908 171. Plumage trade 1920 18b/w. Plumes 1913 318. Plumes and the ladies 1902 115.

### **Intermediate Egret** *Egretta intermedia*

1902 118. Bred 2002 97 (Yellow-billed Egret *E. i. brachyrhyncha*).

### **Little Blue Heron** *Egretta caerulea*

1930 152.



**Snowy Egret** *Egretta thula*  
1932 186-187.

**Little Egret** *Egretta garzetta*

1896 17-18; 1902 118; 1913 238-242b/w; 1917 323-327b/w. Bred 1975 39.

## HAMERKOP *Scopidae*

**Hamerkop** *Scopus umbretta*

1926 79-80b/w. Bred 1910 335b/w; 1911 212. Bred at Colchester Zoo 2006 47.

Breeding at Berlin Zoo 1938 102-103. Unique fishing techniques and nest building behaviour 2000 56-61.

## SHOEBILL *Balaenicipitidae*

**Shoebill** *Balaeniceps rex*

1908 191-201b/w (Correction 295). Early records in captivity 1903 241; 1904 138;

1912 285; 1926 225. Programme for increasing numbers 1998 141.

## PELICANS *Pelecanidae*

1927 215. Breeding Records 1964 220. Eating pigeons 1933 427. Longevity Records 2001 139. Of the world 2011 154 b/w\*.

HYBRIDS: Dalmation Pelican x Pink-backed Pelican 1968 23.

**Great White Pelican** *Pelecanus onocrotalus*

A derelict pelican 1915 339b/w. Bred 1995 30. Breeding Records 1964 220. Hand-reared 1968 23.

**Pink-backed Pelican** *Pelecanus rufescens*

Breeding 1997 80-84; 2007 104-118\*. Twenty-six bred 2004 182.

**Dalmatian Pelican** *Pelecanus crispus*

Breeding 1982 33-35b/w. Laid 2000 75. Second brood 1983 151-152.

**Australian Pelican** *Pelecanus conspicillatus*

Longevity, twenty-six years in captivity 1951 31.

**American Pelican** *Pelecanus erythrorhynchos*

1918 109-110b/w, 134-135b/w. Bred at West Berlin Zoo 1964 219-220. Bred twice at Washington Zoo 1930 335; 1933 105. Care and growth in captivity 1976 139-142.

Eating moorhen 1999 45.

## FRIGATEBIRDS *Fregatidae*

Frigatebird Post of the Pacific 1918 283-285. Longevity, eight years in captivity 1937 137.

## GANNETS AND BOOBIES *Sulidae*

**Northern Gannet** *Morus bassanus*

Bred 1961 140. Breeding Record 1965 33-34. "Chick now quite large" 1959 137. Long-distance ringing recovery 1974 118. Notes on in confinement 1914 312-313.

**Red-footed Booby** *Sula sula*

Wild caught chick hand-reared 1961 109.



Galapagos Flightless Cormorant *Phalacrocorax harrisi* by Gregory Guida

## CORMORANTS AND SHAGS *Phalacrocoracidae*

Cormorants of New Zealand 1934 197.

**Flightless Cormorant** *Phalacrocorax harrisi*

1933 33-34b/w. Nested at Washington Zoo 1937 115.

**Bank Cormorant** *Phalacrocorax neglectus*

2013 131.

**Australian Pied Cormorant** *Phalacrocorax varius*

1934 145.

**Great Cormorant** *Phalacrocorax carbo*

Albino 1900 88. Bred 1961 140. Breeding Record 1933 105. Killing young ducks 1933 398,427. Left the nest 1960 124. Notes 1925 104-106b/w.

**White-breasted Cormorant** *Phalacrocorax lucidus*

Bred 1994 108.

**Socotra Cormorant** *Phalacrocorax nigrogularis*

Population monitoring 1996 93. Captive breeding population 2004 185.

**Imperial Shag** *Leucocarbo atriceps*

Bred 1991 96-97.

## NEW WORLD VULTURES *Cathartidae*

1927 165.

**Turkey Vulture** *Cathartes aura*

Bred 2012 50. Hand-rearing 1997 32.

**Black Vulture** *Coragyps atratus*

2000 51. Breeding and hand-rearing 1981 212-215. Breeding Record 1933 85. Hand-reared 1963 254. Hatched 1920 115-116.

**King Vulture** *Sarcoramphus papa*

Bred 1961 141; 1968 104; 1982 150. Breeding 1968 17b/w. Seventeenth chick hatched 2005 184.

**California Condor** *Gymnogyps californianus*

1971 148; 1981 60; 2000 48; 2004 46. At Washington Zoo 1937 115. Breeding 1989 104-105. Extinct in the wild 1987 175. Hatched 1983 186. Hundredth reared 2001 94. Reintroduction 1995 88. Release 1993 50. Released bird found dead 1993 105. Successful breeding season 1992 196. Wild Census 1967 130.

**Andean Condor** *Vultur gryphus*

Artificial incubation and rearing 1960 154. Bred 1933 459; 1971 76. Breeding at San Diego Zoo 1954 125-128b/w. Condor cliffs at Chester Zoo 1997 1-3b/w. Hatched 1896 77. Rearing in captivity 1953 22-23b/w. Sexable on hatching 1952 95. Longevity, sixty-four years old 1956 196. Young died with overburden of stones in stomach 1968 23.

## SECRETARYBIRD *Sagittariidae*

**Secretarybird** *Sagittarius serpentarius*

1912 105-108b/w, 109-111; 1917 334-337b/w; 1927 165-166; 1931 183-185. Rearing 1988 117-120b/w.

## OSPREY *Pandionidae*

### **Western Osprey** *Pandion haliaetus*

1903 269-273b/w. Breeding in Scotland 1959 183-184; 1971 150; 1972 179; 1980 180.  
Status 1992 40.

## KITES, HAWKS, VULTURES AND EAGLES *Accipitridae*

At East Berlin Zoo 1987 162,102b/w. At Wassenaar Zoo 1982 150. Birds of Prey, treatment in captivity 1910 340,341. Birds of Prey 1927 162b/w,177b/w. Birds of Prey as companions 1949 81. Bird of Prey Working Group 2005 90. Cornell University breeding program 1973 141. Duration of life 1924 32. Feeding 1968 142. Feeding captive birds of prey 1981 256. Free lofting versus tethering for birds used in demonstrations 2013 165. Hawks 1911 275. Imping - a practical way to repair feathers 1989 26b/w. Raptor rehabilitation 1981 266b/w. Renewal of claws and bill tips in Birds of Prey 1928 198,252. Special Birds of Prey Issues of Avicultural Magazine: 1949 May/June; 1981 October/December. UK First Breeding Records 1996 166.

### VULTURES

Diclofenac usage in Europe 2014 40. Drug sale and production halted 2006 91. Kolbe's Vulture 1913 153-154 (Hatched). Rapid decline in some species 2000 137. Recovery programme 2005 36-38. Sociable Vulture "bred in London" 1943 117. Some Indian 1918 49. South African Vulture unit 2006 45. Threat to African 2007 (4)jbc. Vultures 1919 101b/w. Vultures in Africa 1918 52. Vultures in captivity in South Africa 1981 215b/w. West African crisis 2005 125. Workshop 2001 139.

### **Bearded Vulture** *Gypaetus barbatus*

Breeding and hand-rearing 1981 223-231b/w. Breeding in confinement 1933 32. Breeding Record 1933 85. Kenyan rescue programme 1994 53. Reintroduction 1984 243. Two at London Zoo 1912 199.

### **Egyptian Vulture** *Neophron percnopterus*

1993 51. Attempted re-introduction to Italy 1973 65. Bred 1980 53; 1998 44. Breeding again in Italy 1975 232. Conservation Forum 1997 139. Longevity, twenty-seven years 1972 212.

### **European Honey Buzzard** *Pernis apivorus*

In captivity 1906 208-209.

### **Square-tailed Kite** *Lophoictinia isura*

1906 195-196b/w.

### **Hooded Vulture** *Necrosyrtes monachus*

Pet 1918 47-48b/w.

### **White-rumped Vulture** *Gyps bengalensis*

Bred 1981 186. Breeding 1983 4-8b/w.

### **Slender-billed Vulture** *Gyps tenuirostris*

Significant population found 2005 47.

### **Rüppell's Vulture** *Gyps rueppelli*

Bred 1991 191; 1998 93. Laid 1956 125.

### **Griffon Vulture** *Gyps fulvus*

Bred 1984 177. Bred at Colchester Zoo 2006 47. Breeding 1941 157-159b/w; 1980 61-66b/w. Breeding note 1995 171. Laid 1968 63.

### **Cape Vulture** *Gyps coprotheres*

First parent-reared captive-bred 1997 45.

**Cinereous Vulture** *Aegypius monachus*

Breeding behaviour 2002 3-7b/w.

**Lappet-faced Vulture** *Torgos tracheliotos*

Infertile eggs 1997 32.

## EAGLES

Chains for eagles 1910 256. Scenes in the life of two eagles 1925 70. Ways of 1922 93,142.

**Crested Serpent Eagle** *Spilornis cheela*

1914 154-159.

**Philippine Eagle** *Pithecophaga jefferyi*

1909 328; 1940 33-34b/w. Bred 1993 101. Census 1965 134; 1970 165.

**Congo Serpent Eagle** *Circaetus spectabilis*

1927 228.

**Bateleur** *Terathopius ecaudatus*

Bred 1977 57; 1998 164b/w. In captivity 1950 49. Longevity, fifty-five years 1924 34.

The Phoenix 1920 1-2b/w; 1921 147-149.

**Papuan Eagle** *Harpyopsis novaeguineae*

1951 36.

**Crested Eagle** *Morphnus guianensis*

Nest found 1995 87.

**Harpy Eagle** *Harpia harpyja*

Bred 1994 227; 2010 48. Fourteenth hatched 2002 170-171\*. Hatched 1985 170.

Longevity, eighteen years old 1920 45; 1940 33b/w. Release 1998 93. B/w 1927 172.

**Blyth's Hawk-Eagle** *Nisaetus alboniger*

Bred 1980 53.

**Ornate Hawk-Eagle** *Spizaetus ornatus*

Bred 1981 184; 2007 (3) ibc.

**Crowned Eagle** *Stephanoaetus coronatus*

Breeding note 1996 91. Leopard of the air 1968 134-144b/w. Longevity, thirty years 1963 88.

**Long-crested Eagle** *Lophaetus occipitalis*

Bred at Berlin Zoo 1972 106.

**Greater Spotted Eagle** *Clanga clanga*

In Hertfordshire 1916 69.

**Wahlberg's Eagle** *Hieraetus wahlbergi*

1963 170.

**Steppe Eagle** *Aquila nipalensis*

Longevity, forty-one years 1928 22.

**Eastern Imperial Eagle** *Aquila heliaca*

Longevity, thirty-six years old 1932 47.

**Golden Eagle** *Aquila chrysaetos*

1927 177b/w. Bred 1972 214; 1973 141. Laid 1899 140; 1956 125; 1968 63. Longevity, forty years 1965 133.

**Verreaux's Eagle** *Aquila verreauxii*

Bred 1992 195.

**African Hawk-Eagle** *Aquila spilogaster*

Reared for release 1998 141-142.

**African Goshawk** *Accipiter tachiro*

Bred 2002 97.

**Grey Goshawk** *Accipiter novaehollandiae*

Bred 1973 35.

- Eurasian Sparrowhawk** *Accipiter nisus*  
 Attacking cage-birds 1944,70. Bred 1973 63; 1974 160. Breeding attempt 1975 85-89b/w. Dereglulation 1994 175. Note 1976 110.
- Northern Goshawk** *Accipiter gentilis*  
 1936 112b/w. Introduced 1987 231-232.
- Western Marsh Harrier** *Circus aeruginosus*  
 Hand-reared 1980 115.
- Swamp Harrier** *Circus approximans*  
 1934 203-204.
- Hen Harrier** *Circus cyaneus*  
 Nesting in Ireland 1918 205-207b/w.
- Montagu's Harrier** *Circus pygargus*  
 Monograph 1996 186.
- Red Kite** *Milvus milvus*  
 1965 70; 1979 42. Census 1980 185. Good breeding season 1994 225.
- Black Kite** *Milvus migrans*  
 1917 296-299; 1949 94. Bred at London Zoo 1933 85; 1974 118.
- Whistling Eagle** *Haliaeetus spheurnus*  
 HYBRIDS: Whistling Eagle x Brahminy Kite 1974 35.
- African Fish Eagle** *Haliaeetus vocifer*  
 Hatched 1985 170.
- Pallas's Sea Eagle** *Haliaeetus leucoryphus*  
 1925 70-74.
- White-tailed Eagle** *Haliaeetus albicilla*  
 1969 151-152,277. Bred 1971 78. Breeding results in Sweden 1976 219. Introduced 1987 231. For release 1993 50. Nesting wild in UK 1983 185. Reintroduction 1992 136.
- Bald Eagle** *Haliaeetus leucocephalus*  
 1969 145. Breeding at Flamingo Gardens and Zoological Park 2004 49-53\*. Chairman's success 2007 93. Fifteen bred in nine years 1995 46. Long lived female dies 2011 138. Notes on 1981 271-272. Rehabilitation 1981 115. Status reclassified 1994 226. Success 1994 177. B/w 1975 174.
- Steller's Sea Eagle** *Haliaeetus pelagicus*  
 Black Sea Eagle *H. p. niger* attempting to catch sparrows 1920 55. Longevity, thirty-six years 1972 33. Note 1938 78b/w. Steller's and Black Sea-Eagles *H. p. niger* 1949 93-96b/w.
- Grasshopper Buzzard** *Butastur rufipennis*  
 Note 1963 170.
- Harris's Hawk** *Parabuteo unicinctus*  
 As pigeon scarers 1994 174. Bred 1973 141.
- Black-breasted Buzzard Eagle** *Geranoaetus melanoleucus*  
 Probable first breeding 2005 135.
- Swainson's Hawk** *Buteo swainsoni*  
 1954 19b/w.
- Red-tailed Hawk** *Buteo jamaicensis*  
 Bred 1974 233. Hatched from artificially inseminated egg 1971 148. Laid 1970 164. HYBRIDS: Common Buzzard x Red-tailed Hawk 1972 67. Red-tailed Hawk x Common Buzzard 1977 169.
- Long-legged Buzzard** *Buteo rufinus*  
 Bred 1986 194.
- Common Buzzard** *Buteo buteo*  
 1970 164. Bred 1971 224. Dereglulation 1994 176. HYBRIDS: Common Buzzard x Red-tailed Hawk 1972 67. Red-tailed Hawk x Common Buzzard 1977 169.

**Jackal Buzzard** *Buteo rufofuscus*

Breeding 1907 57,190. Incubation period 1907 254. Longevity 1922 13; 1931 336. Pre-war veteran 1919 222.

## **BUSTARDS** *Otididae*

1928 238b/w; 1983 53. An omnivorous bustard 1907 106. Commonly encountered hatching and post-hatching problems 1999 114b/w. Management in captivity 2003 1b/w. Tracking 1995 185.

**Great Bustard** *Otis tarda*

1897 61-63; 1904 188-191 (Hatched); 1909 184-192b/w; 1911 337; 1913 261-263b/w; 1949 1; 1981 59. An aged 1926 125-126 (Longevity, twenty-eight-and-a-half years old). At Scampston Hall 1931 128-129b/w,130-133. Efforts in breeding 1962 169-170 (Hatched); 1965 190 (Hatched). First success in Zoo breeding 1964 218-219b/w. Problems and progress in captive breeding by the Great Bustard Trust 1980 131-140b/w. Rearing in India 1963 45-48b/w. Rearing in Spain 1933 106b/w. Spanish protection 1994 228. B/w: 1911 377; 1949 1.

**Kori Bustard** *Ardeotis kori*

At London Zoo 1911 44b/w. Distraction display 2009 116-118b/w. Sunning behaviour at Smithsonian National Zoo Park 2007 145-152b/w. Wild 1925 313-314.

**Indian Bustard** *Ardeotis nigriceps*

Chick growth and development 1990 133-140b/w.

**Australian Bustard** *Ardeotis australis*

Display 1931 147-148.

**Macqueen's Bustard** *Chlamydotis macqueenii*

Reintroduced birds breeding 1996 92.

**White-bellied Bustard** *Eupodotis senegalensis*

1914 147. Bred 1971 76. Captive breeding 2003 107-115\*.

**Blue Korhaan** *Eupodotis caerulescens*

1907 139-142b/w.

**Buff-crested Bustard** *Lophotis gindiana*

Breeding 1989 103-104; 2003 4b/w.

**Southern Black Korhaan** *Afrotis afra*

At London Zoo 1903 11. Bred 1971 37; 1972 68; 1993 98. Breeding 1986 61-63b/w. Hand-rearing a Black Korhaan 1977 233.

**Little Bustard** *Tetrax tetrax*

Breeding 1917 30-34b/w; 1931 133-134b/w. Notes 1911 57-61b/w; 1913 55-56.

## **SERIEMAS** *Cariamidae*

1928 181.

**Red-legged Seriema** *Cariama cristata*

1928 181b/w; 1920 190. Behaviour 1987 242-243. Bred 1911 302b/w,340. Hand-rearing 1925 171-175. Sunning positions 1923 188-189.

**Black-legged Seriema** *Chunga burmeisteri*

1928 181b/w.

## KAGU *Rhynochetidae*

### **Kagu** *Rhynochetos jubatus*

1905 280-282b/w; 1907 257-258b/w; 1908 119-120; 1922 74b/w; 1928 182b/w; 1930 347-348,349. Bred 1998 167b/w; 2001 92; 2002 90; 2003 88. "Bred on several occasions" 1940 105. Breeding 1919 239-242 (Hatched); 1921 28,41-42 (Bred). Conservation project and breeding report 1992 197. Cooperative agreement 1998 140-141. Hatched 1965 59-60b/w,121; 1967 128-129. In various collections 1921 183; 1931 245,251. Laid 1940 66. Little known pose 1910 51-52b/w. My life with 2009 49-112\*b/w. Nesting 1937 30 (Hatched). Notes 1925 276; 1958 68. Remarks about 1921 157-158. Second chick hatched 2009 160. Voice 1920 182. B/w 1955 319.

## SUNBITTERN *Eurypygidae*

### **Sunbittern** *Eurypyga helias*

1914 121-123b/w; 1928 182b/w; 1995 32,205. Bred 1965 192; 2004 91. Breeding 1989 1-4b/w; 2012 77-82\*. Breeding notes 1959 137. Display and coloration 1978 150-157b/w. Hatched 2003 143. Notes 1912 254; 1968 206,208 (Breeding Records).

## FLUFFTAILS *Sarothruridae*

Roosting habits 1977 111.

### **Red-chested Flufftail** *Sarothrura rufa*

Imported 1927 26.

## FINFOOTS *Heliornithidae*

### **African Finfoot** *Podica senegalensis*

1927 214. In captivity 1905 47. Notes 1948 50-52.

### **Masked Finfoot** *Heliopais personatus*

1907 172; 1954 39.

## RAILS, GALLINULES AND COOTS *Rallidae*

1928 283b/w. British rails 1908 244,303,347; 1909 112,176,198,306. Moorhens and coots of India 1907 166,223. Some rails and gallinules 1918 21b/w.

HYBRIDS: Giant Wood Rail x Grey-necked Wood Rail (Eggs) 1926 306.

### **Yellow Rail** *Coturnicops noveboracensis*

Breeding and behaviour 1975 133-141b/w.

### **Andaman Crane** *Rallina canningi*

At London Zoo 1904 275.

### **Russet-crowned Crane** *Laterallus viridis*

Breeding the Cayenne Crane *Creciscus cayennensis* (= this species?) 1937 277-278.

### **Rufous-sided Crane** *Laterallus melanophaeus*

Breeding 1969 100. Note 1980 60.

### **Red-and-white Crane** *Laterallus leucopyrrhus*

Bred 1980 60. Breeding 1962 179-181b/w (Correction 1963 42); 1979 63-67b/w.

Breeding notes 1997 55. Observations 1966 24-26b/w. Sitting 1969 148.



**Weka** *Gallirallus australis*

Breeding 1904 329-330. Breeding and behaviour of North Island Weka 1972 53-64b/w.  
Breeding Record 1904 300-301. Hatched 1904 277. Longevity, fifteen years 1974 76.  
South Island Weka 1934 228-233. Wild nesting notes 1902 74.

**Lord Howe Woodhen** *Gallirallus sylvestris*

Captive breeding programme 1984 124; 1985 15-30b/w.

**Buff-banded Rail** *Gallirallus philippensis*

Bred at Adelaide Zoo 1939 320. Twenty bred 2004 92.

**Slaty-breasted Rail** *Gallirallus striatus*

Breeding and behaviour 1974 125-131b/w.

**Clapper Rail** *Rallus crepitans*

At London Zoo 1911 69.

**Virginia Rail** *Rallus limicola*

Breeding requirements in captivity 1977 135-141b/w.

**Water Rail** *Rallus aquaticus*

Breeding 1983 203-204. Calling 1917 190-193. In Hampshire 1909 196-198, 306-307;  
1916 95-96.

**African Rail** *Rallus caerulescens*

Breeding 1929 286-288b/w.

**Lewin's Rail** *Lewinia pectoralis*

1896 103-105; 1915 113. Bred 1909 251.

**Abbott's White-throated Rail** *Dryolimnas cuvieri abbotti*

1908 219-221\*.

**Corncrake** *Crex crex*

As aviary bird 1940 71-72, 163. Avicultural Society donation to breeding project 2013  
(3)ibc, (4)ibc. Bred 1896 179-180; 1898 51-52; 1902 141-142; 1963 177; 1964 150.  
Fifty-two hatched and released 2003 143. In captivity 1945 82-83. Progress of recovery  
project 2011 94. Recovery programme 2007 13-21\*. Reintroduction project 2003 95.

**Grey-necked Wood Rail** *Aramides cajaneus*

1918 22-23b/w. Behaviour 1980 54. Bred 1956 162. Breeding 1974 57-58. Nesting  
1926 307-310b/w.

**Giant Wood Rail** *Aramides ypecaha*

Bred 1940 31; 2002 97. Breeding 1908 345-346; 1974 11-13. Breeding notes 1983 50-  
51.

*Gymnocrex*

Possible new species 1997 116.

**White-breasted Waterhen** *Amaurornis phoenicurus*

1918 24.

**Black Crane** *Amaurornis flavirostra*

1918 23b/w; 1927 69-70; 1936 278. At Walsrode 2008 (2)ibc. Bred 1956 227; 1965  
118; 1972 68; 1993 106. Breeding 1930 271-272; 1931 57; 1999 12-21\*. Breeding well  
1994 108. Hand-rearing 1984 233-237b/w.

**Australian Crane** *Porzana fluminea*

Bred 1961 141.

**Sora** *Porzana carolina*

Breeding requirements in captivity 1977 135-141.

**Blackish Rail** *Pardirallus nigricans*

Breeding 1969 164-165b/w.

**Plumbeous Rail** *Pardirallus sanguinolentus*

Identity unsure, various reports listed give record of breeding at Paignton Zoo of *Limnopardalis rytirhynchus* (= this species?) or *Limnopardalis sanguinolentus* (= this species?) 1927 323; 1929 265; 1930 261; 1933 105.

**Chestnut Rail** *Eulabeornis castaneoventris*

At London Zoo 1921 152.

**Invisible Rail** *Habroptila wallacii*

Rediscovered 1996 41.

**Purple Gallinule** *Porphyrio porphyrio porphyrio*

Behaviour 1970 98-109b/w. Bred 1910 335; 1968 192. Feeding method 1928 168.

Hand-rearing and growth 1983 205-210. Helpers at nest 1970 2-4. In Britain 1962 80.

**Grey-headed Gallinule** *Porphyrio porphyrio poliocephalus*

1918 21-22. Bred 1966 172. Wild in Florida 1999 44.

**Pukeko** *Porphyrio porphyrio melanotus*

1933 57. At Lilford 1932 47. Bred 1971 176.

**Takahe** *Porphyrio hochstetteri*

Burwood Bush Breeding Unit 1990 62. Increased population 1991 160. Survival of 1949 139; 1973 102; 1985 52-53b/w.

**Allen's Gallinule** *Porphyrio alleni*

Bred 1976 112.

**Gough Moorhen** *Gallinula comeri*

Bred 1958 120,195; 1969 22; 1999 80. Breeding 1958 43-45. Note 1956 159.

**Common Moorhen** *Gallinula chloropus*

Curious habits (Older feeding younger chick) 1919 131. Feeding on fish 1900 39-40,62-63. Habits 1921 143-144. Notes 1941 222; 1966 120; 1970 222. Semi-domesticated 1898 27-29 (Bred),51.

**Black-tailed Nativehen** *Tribonyx ventralis*

Bred 1910 335; 1911 70. Breeding Records 1968 223.

**Tasmanian Nativehen** *Tribonyx mortierii*

Bred 1952 77; 1955 263; 1968 222-223; 1969 35. Breeding 1969 52. Observations 1970 56-57.

**Common Coot** *Fulica atra*

Bred 1964 225.

**American Coot** *Fulica americana*

Breeding Record 1933 106.

**Red-gartered Coot** *Fulica armillata*

Bred 1974 114.

## TRUMPETERS *Psophiidae*

1909 31b/w,76,104; 1915 199; 1924 27; 1928 181.

**Grey-winged Trumpeter** *Psophia crepitans*

1908 31-32b/w,104,114 (Native name); 1915 202-204b/w; 1926 1-3b/w\*; 1928 182b/w; 2005 107-108. Breeding 1989 103; 2001 21-26\*. Laid 1951 194-195; 1952 152 (Infertile). One hundred and seven hatched since 1985 1992 185b/w.

**Pale-winged Trumpeter** *Psophia leucoptera*

Longevity, eleven years 1961 198.

**Dark-winged Trumpeter** *Psophia viridis*

1961 36-37.

## CRANES *Gruidae*

1907 347b/w; 1912 345b/w; 1928 216b/w. American cranes 1937 329. Analysis of relationship between egg order (1-15) and egg quality as determined by hatching and fledging rates in four species of crane 1994 29. As garden pets 1906 263b/w. At Woburn 1908 26,305. Breeding at Walsrode 1998 163-164b/w. Cranes in aviculture 1995 155. Evaluating pair-bond strengths 1997 107b/w. In Asian Zoos 1982 104. In captivity 1901 65; 1915 52b/w. Increasing egg fertility 1980 10b/w. Incubating eggs under broodies 1992 125. Incubation periods 1921 160. Intelligence 1907 98. Maintaining and breeding in captivity 1974 81b/w. Notes on breeding at Cotswold Wildlife Park 1972 177b/w. Notes on cranes at Lilford 1911 147b/w. Our cranes (Alderson) 1913 115. Paradise Park success 1996 140; 1997 187. Seasonal weight variations in four species 1997 71. UK Census 1982 173. Wintering in New England 1912 222,288. Woburn breeding results 1910 36; 1920 167. Worm infestations 1974 238.

HYBRIDS: Brolga x Sarus Crane 1936 4. East African Crowned Crane x West African Crowned Crane 1939 347. Lilford's Crane *G. g. lilfordii* x White-naped Crane 1934 322. Sandhill Crane x Wattled Crane 1912 23.

### **Grey Crowned Crane** *Balearica regulorum*

Breeding 1935 60b/w; 1966 1-3b/w,64; 1976 215-216; 1977 57-60,63-68. Breeding Records 1966 91; 1977 111. Fecundity 1992 67-70b/w. In Uganda 1917 62.

### **Black Crowned Crane** *Balearica pavonina*

1903 159-160\*,195-196\*; 1908 123-128; 1913 115-120. Bred 1973 16; 1999 80; 2003 72-73. Breeding 1969 37-39b/w\*. Eggs 1915 69. Escaped 1902 172-173. Five bred 2007 48. Nesting 1913 100; 1914 233-235b/w; 1915 68 (Reared to six weeks). Pinioning 1902 124-125.

### **Siberian Crane** *Grus leucogeranus*

1921 33-34b/w; 1981 186. Flock extinct 1994 175. Laid 1911 149-150. Longevity 1968 223; 1992 136. Nesting 1920 196 (Eggs). Seasonal weight variations 1997 71-77. Two sent to Iran 1996 44.

### **Sandhill Crane** *Grus canadensis*

Adoption of chick by pair of Red-crowned Cranes 1974 14-16. Bred 1911 148. Breeding Records 1912 24; 1933 104. Dick the Sandhill Crane 1917 284-286. Nesting 1937 180-181,210 (Hatched); 1938 169-170 (Reared). Seasonal weight variations 1997 71-77. Two civilised cranes 1916 97-98.

### **White-naped Crane** *Grus vipio*

1911 147-148b/w (Bred); 1913 221-222b/w. Bred 1910 36; 1929 7; 1932 47; 1944 94; 1968 53. Breeding 2010 78-87\*. Breeding and management 1992 58-66. Bronx Zoo breeding project 1980 116. Elderly male 1999 80. Incubation period 1921 160. Note 1960 130b/w.

### **Sarus Crane** *Grus antigone*

1908 243-244b/w. At liberty 1934 168. Bred 1933 130; 1965 62-63b/w; 1972 177-178; 1975 39-40. Breeding 1910 36; 1930 89-91b/w; 1960 200. Breeding population found (Eastern Sarus Crane *G. a. sharpii*) 1995 89b/w; 1937 306; 1968 53. Early Breeding Record 1930 91. Longevity, forty-two years 1932 46. Wild in India 1930 222-223. B/w: 1937 306; 1968 53.

### **Brolga** *Grus rubicunda*

1931 197 (Been bred at Adelaide Zoo); 2000 38. Bred 1940 66; 1974 81b/w; 1999 94. Breeding 1924 251-253b/w; 1979 139-140. Nesting 1902 1-3b/w (Eggs). "Young now half grown" 1910 36.

**Demoiselle Crane** *Grus virgo*

1901 89-92 (Hatched),144; 1902 196-198; 1913 117-122; 1932 107-109. Bred 1933 37; 1972 177. Bred using artificial insemination (A.I.) 1991 96. Breeding 1903 390-393; 1931 134-135. Early Breeding Records 1904 58; 1931 134. Reared to twelve days 1931 332.

**Blue Crane** *Grus paradisea*

1909 83-85b/w; 1914 235-236b/w. 2009 158-159. Bred 1966 119-120; 1999 93,94; 2003 73. Breeding 1936 272-273b/w; 1944 3-4; 1972 165-169b/w; 1977 190-192b/w; 1979 96. Fitted with wooden leg 1968 30. Hardiness 1922 26-27.

**Wattled Crane** *Grus carunculata*

Bred 1972 68. Captive breeding programme 2001 44-45. Note 1911 149b/w. Potential reasons for variation in egg-laying cycles 2001 4-9. Rare baby crane 1944 142-143 (Hatched); 1945 28 (Died). Wild 1963 134. Working group 1999 184.

**Red-crowned Crane** *Grus japonensis*

1920 3-7b/w,188 (Bred). Bred 1913 41; 1930 103; 1939 3; 1943 50; 1945 27; 1955 329; 1999 80\*. Early Breeding Record 1921 160. First European Studbook 1991 159. Genetic and demographic management 1985 41-47. Incubation period 1921 160. Note 1960 130. Reared frequently in Japan 1926 214; 1937 329. Seasonal weight variations 1997 71-77. Studbook 1994 55. "Young doing well" 1910 36.

**Whooping Crane** *Grus americana*

Death of 1931 8-11. Hatched 1957 207. In America 1941 69. Lesson in preservation 1981 135-140. Longevity, thirty-eight years 1932 46. Notes 1912 288,312b/w. Patuxent News 1968 192; 1969 148. Productive season in wild 1984 124. Reducing excessive weight loss in eggs by rehydration 1986 161-165. Seasonal weight variations 1997 71-77. Wild census 1965 134; 1966 90; 1967 206; 1968 71-72; 1971 148.

**Common Crane** *Grus grus*

Bred 1910 36. Breeding 1988 198-201. Breeding Records 1926 342; 1933 10 (Longevity and second generation).

**Hooded Crane** *Grus monacha*

At London Zoo 1911 268. Hatched 1943 80. Laid 1919 250; 1920 13. \*2010

**Black-necked Crane** *Grus nigricollis*

1924 295. Died at Clères 1933 37. Hatched in two collections 1991 42. Pair in Japan 1926 214. Status 1993 50.

## LIMPKIN *Aramidae*

**Limpkin** *Aramus guarauna*

1914 320-321; 1928 183.

## BUTTONQUAIL *Turnicidae*

1930 16. Three species new to South Australian aviculture 1956 148.

**Common Buttonquail** *Turnix sylvaticus*

1908 307-308; 1923 184. Behaviour notes 1907 219-227b/w (*T. s. dussumier*). Breeding 1927 264-266. Breeding biology and behaviour 1973 55-59. Breeding in German bird-rooms 1905 217-222. Prolific breeding group 1974 114.

**Red-backed Buttonquail** *Turnix maculosus*

1956 149. Bred 1957 110.

**Yellow-legged Buttonquail** *Turnix tanki*

Breeding 1903 317-324\*.

**Barred Buttonquail** *Turnix suscitator*

1945 58-60 (Bred). Behaviour 1970 219-227b/w. Breeding a Hemipode 1967 184-188; 1968 70.

**Madagascan Buttonquail** *Turnix nigricollis*

2008 79-83\*. Bred 1913 54-55. Breeding in German bird-rooms 1905 195-203 (Correction 234).

**Black-breasted Buttonquail** *Turnix melanogaster*

1956 149. Bred 1957 110.

**Painted Buttonquail** *Turnix variegatus*

Breeding 1905 295-301b/w. Hand-rearing 1907 303-305b/w.

**Red-chested Buttonquail** *Turnix pyrrhorostris*

1956 148-149. Bred 1957 140.

**Little Buttonquail** *Turnix velox*

Breeding 1938 78-79. Keeping and breeding 1984 219-220.

## STONE-CURLEWS AND THICK-KNEES *Burhinidae*

**Eurasian Stone-curlew** *Burhinus oedicnemus*

1911 39. Bred 1970 129,244b/w. Hatched 1929 248. Laid 1917 248-249. Longevity, thirteen-and-a-half years 1961 198. Multi-generation breeding 1999 6-11\*. Reared from wild eggs 1970 76-77.

**Senegal Thick-knee** *Burhinus senegalensis*

Unusual nesting behaviour 1947 22.

**Water Thick-knee** *Burhinus vermiculatus*

Bred 2002 97. Breeding 1934 301-302b/w.

**Spotted Thick-knee** *Burhinus capensis*

Breeding 1961 162-164b/w. Brief interlude with 1947 19.

**Double-striped Thick-knee** *Burhinus bistriatus*

Bred 1979 165. Techniques for hand-rearing 1987 121-129b/w.

**Peruvian Thick-knee** *Burhinus superciliosus*

Breeding 1993 24-26b/w.

**Bush Stone-curlew** *Burhinus grallarius*

1911 61-62b/w. Bred 1925 50; 1929 264-265b/w; 1931 250. Breeding Records 1933 105. B/w 1925 50.

## SHEATHBILLS *Chionidae*

1917 110b/w. Sheathbills at London Zoo 1927 245.

**Snowy Sheathbill** *Chionis albus*

1927 246b/w. Feeding method 1928 98.

**Black-billed Sheathbill** *Chionis minor*

1917 111b/w.

## OYSTERCATCHERS *Haematopodidae*

**African Black Oystercatcher** *Haematopus moquini*

Capture plan dropped 2009 159. World first breeding 2012 52.

**Eurasian Oystercatcher** *Haematopus ostralegus*

1914 45-47b/w; 1956 190-191. Bred 1976 54. Hatched under bantams 1965 30. Longevity, twenty-eight years old 1974 113.

## STILTS AND AVOCETS *Recurvirostridae*

### STILTS

1947 153.

#### **Black-winged Stilt** *Himantopus himantopus*

1934 37-38b/w. Bred 1965 192; 1974 114.

#### **Black-necked Stilt** *Himantopus mexicanus*

Breeding notes 1997 52-54.

#### **Black Stilt** *Himantopus novaezelandiae*

1985 53-54b/w. Cross-fostered 1984 124.

#### **Banded Stilt** *Cladorhynchus leucocephalus*

Bred 1974 36.

#### **Pied Avocet** *Recurvirostra avosetta*

Bred 1974 114. Breeding 1907 258-263b/w; 1969 251-252b/w. Breeding notes 1997 54.

Note 1906 359; 1947 150-153. Under threat 1994 227. Wild 1902 10; 1966 28; 1968 70; 1976 218.

#### **Red-necked Avocet** *Recurvirostra novaehollandiae*

Bred 1974 36.

## PLOVERS AND LAPWINGS *Charadriidae*

Breeding and rearing waders 1939 173; 1971 16. Breeding results 2013 131. Desirable 1914 222. Keeping waders 1956 1b/w. Management and treatment 1906 359; 1907 107; 1911 140; 1912 191. Notes 1914 313. Seen in Scillies 1916 127b/w. Small waders 1928 268b/w; 1947 8,145b/w. Some European waders 1941 160. Waders 1912 260; 1938 115. Waders in aviculture survey 2008 (4)ibc. Waders in captivity 1903 202.

#### **Northern Lapwing** *Vanellus vanellus*

1956 191; 1957 136-137; 1998 6-7. Bred 1939 173. Captive management 1931 188-190. Decline 1994 176. Hand-rearing 1983 77-83. Rearing 1971 16-19. White 1900 114.

#### **Long-toed Lapwing** *Vanellus crassirostris*

Bred 2001 45. First UK breeding 2007 186.

#### **Blacksmith Plover** *Vanellus armatus*

Commandeering nest of Three-banded Plover 2001 187\*. Hatched 1967 97. Successful rearing 1936 208-209.

#### **Spur-winged Plover** *Vanellus spinosus*

Bred 1965 192. Third generation bred 1974 114.

#### **Black-headed Lapwing** *Vanellus tectus*

1933 226-227. Observations 1965 114-116b/w.

#### **Black-winged Plover** *Vanellus melanopterus*

Breeding 1939 334b/w; 1933 194.

#### **Crowned Plover** *Vanellus coronatus*

Bred 1979 96. Breeding 1929 155-156. Breeding Record 1934 322. Hatched 1933 127. Nested 1934 79,163. B/w 1943 31(Eggs).

#### **African Wattled Plover** *Vanellus senegallus*

Bred 1909 36; 1910 335. Hatched 1933 128; 1934 162.

#### **Banded Lapwing** *Vanellus tricolor*

Bred 1934 190; 1940 31; 1949 32. Breeding 1940 246-250,317,318; 1944 118-122; 1956 219,223b/w; 1957 79. Six broods in a year 1970 36.

**Masked Plover** *Vanellus miles novaehollandiae*

Bred 1959 25. Breeding note 1997 62-63. Natural range extension 2002 143.

**Southern Lapwing** *Vanellus chilensis*

1915 201-202. Nesting 1986 150-156. Rearing fostered Lapwings 1932 164.

**Australian Courser** *Peltohyas australis*

Bred 1979 169.

**European Golden Plover** *Pluvialis apricaria*

Colour change 1922 59-60.

**Grey Plover** *Pluvialis squatarola*

Curious behaviour 1924 84-85.

**Ringed Plover** *Charadrius hiaticula*

As an aviary bird 1903 26-28; 1938 80-81. Breeding notes 1997 62. Reared from wild eggs 1902 90-92.

**Little Ringed Plover** *Charadrius dubius*

Breeding 1976 127. Studies 1953 191-207b/w.

**Killdeer** *Charadrius vociferus*

Bred 1963 206.

**Piping Plover** *Charadrius melodus*

Incubation and rearing 1966 145-146\*.

**Kittlitz's Plover** *Charadrius pecuarius*

1945 32b/w. Bred 1965 192. Hatched 1970 76.

**Three-banded Plover** *Charadrius tricollaris*

Nest commandeered by Blacksmith Plover 2001 187\*.

**Malaysian Plover** *Charadrius peronii*

Wild data 1997 114.

**Puna Plover** *Charadrius alticola*

Bred 1971 37.

**New Zealand Shore Plover** *Thinornis novaeseelandiae*

1985 53. Bred 1993 106.

**Pied Plover** *Hoploxypterus cayanus*

"Triple Alliance" 1911 264-267 (Nesting); 1915 111-112.

## EGYPTIAN PLOVER *Pluvianidae*

**Egyptian Plover** *Pluvianus aegyptius*

1908 139-144b/w. Habits of young 1906 293.

## PAINTED-SNIPE *Rostratulidae*

**Greater Painted-snipe** *Rostratula benghalensis*

Observations 1974 1-3b/w.

## JACANAS *Jacanidae*

**African Jacana** *Actophilornis africanus*

1927 214-215. Breeding 2000 62-73b/w\*. Moulting cycles in captivity 2001 115-120\*.

Parent-reared 2002 152-153. Rearing 1983 67-68b/w.

**Comb-crested Jacana** *Irediparra gallinacea*

At Taronga Park 1974 230.

**Pheasant-tailed Jacana** *Hydrophasianus chirurgus*

1902 95; 1903 215.

**Wattled Jacana** *Jacana jacana*

Breeding at Barcelona Zoo 2013 16-24\*. Breeding notes 1997 55-56.

**PLAINS-WANDERER** *Pedionomidae*

**Plains-wanderer** *Pedionomus torquatus*

1988 108.

**SEEDSNIPES** *Thinocoridae*

**Grey-breasted Seedsnipe** *Thinocorus orbignyianus*

1913 381.

**Least Seedsnipe** *Thinocorus rumicivorus*

1913 321-323b/w. At London Zoo 1914 47; 1982 60. Note 1913 381.

**SNIFE, SANDPIPERS AND CURLEWS** *Scolopacidae*

Nesting habits of plovers 1945 31b/w.

**Eurasian Woodcock** *Scolopax rusticola*

Study 2004 82-90\*b/w, 130-139b/w.

**American Woodcock** *Scolopax minor*

Care and exhibition 1972 64-65b/w.

**Subantarctic Snipe** *Coenocorypha aucklandica*

Proposed captive breeding 1998 145-147b/w.

**Common Snipe** *Gallinago gallinago*

1913 380-381 (Wrongly identified as Snipe 1914 56). A hand-reared 1909 141-142b/w. Drumming 1928 213-214. In captivity 1915 144-147, 195-196. Request for captive information 1998 145.

**Black-tailed Godwit** *Limosa limosa*

Moult 1901 160. Under threat 1994 227.

**Eurasian Curlew** *Numenius arquata*

1906 111-112; 1938 80; 1956 190. Albino 1900 88. Hatched under bantam 1965 30. Notes on injured 1983 233-234. Rearing 1971 16-19.

**Redshank** *Tringa totanus*

Hatched at London Zoo 1907 274. Rearing 1971 16-19.

**Lesser Yellowlegs** *Tringa flavipes*

In Lancashire 1998 94.

**Common Sandpiper** *Actitis hypoleucos*

Rearing 1904 321-324 (Wild hatched).

**Spotted Sandpiper** *Actitis macularius*

Rearing 1968 1-2\*.

**Ruddy Turnstone** *Arenaria interpres*

Longevity, thirteen years 1972 212. The turning of 1910 58-60b/w.

**Red Knot** *Calidris canutus*

1900 158-159. Breeding 1912 199-200, 230. Longevity, thirteen years 1972 212.

**Dunlin** *Calidris alpina*

Brief notes 1968 95-96b/w.

**Spoon-billed Sandpiper** *Eurynorhynchus pygmeus*

2011 (4)ibc. 2012 44. Headstarting in Russia 2013 146-159\*.



**Ruff** *Philomachus pugnax*

1897 19; 1897 38-40 (Partially hatched) 1900 54-56; 1903 141-144. Assumption of breeding plumage 1934 63. Breeding 1903 400-401; 1969 39-41. Displaying 1924 172b/w. Longevity, twenty-eight years old 1974 113.

**Red-necked Phalarope** *Phalaropus lobatus*

1909 309-311b/w; 1931 136-137. In captivity 1915 196-197. My best bird view last year 1913 78-80.

## **COURSERS AND PRATINCOLES** *Glareolidae*

Nesting habits 1945 31. Three species at London Zoo 1926 159.

HYBRIDS: Collared Pratincole x Oriental Pratincole 1965 192.

**Cream-coloured Courser** *Cursorius cursor*

1922 159 (Has laid in captivity); 1970 35-36.

**Double-banded Courser** *Rhinoptilus africanus*

1908 23-25\*.

**Collared Pratincole** *Glareola pratincola*

Bred 1993 159.

**Oriental Pratincole** *Glareola maldivarum*

Laying and artificial rearing 1961 194-195b/w.

## **GULLS, TERNS AND SKIMMERS** *Laridae*

**Black Skimmer** *Rynchops niger*

Hatched and reared from wild-taken egg 1905 112.

**Black-legged Kittiwake** *Rissa tridactyla*

1949 89-90.

**Silver Gull** *Chroicocephalus novaehollandiae*

Bred 1900 185; 1937 289; 1971 38. Breeding Records 1933 105. Longevity, at least twenty-eight years old 1955 42. Management of a captive colony 1992 173-177.

**Black-headed Gull** *Chroicocephalus ridibundus*

At liberty 1946 55. Bred 1912 192. Catching moths 1902 228-229. Hatched and reared under bantam, hand fed 1931 202. Recorded from New Guinea 1980 52.

**Grey-headed Gull** *Chroicocephalus cirrocephalus*

Bred 1976 54.

**Little Gull** *Hydrocoloeus minutus*

1895 68.

**Franklin's Gull** *Leucophaeus pipixcan*

1897 53.

**Grey Gull** *Leucophaeus modestus*

Breeding 2005 126-128\*.

**Sooty Gull** *Ichthyaeetus hemprichii*

Hatched 1912 286.

*Larus*

Hardiness 1906 177. Seagulls 1919 189b/w.

HYBRIDS: Lesser Black-backed Gull x Herring Gull 1953 142.

**Common Gull** *Larus canus*

Perching in trees 1924 171.

**Great Black-backed Gull** *Larus marinus*

Bred 1903 111; 1956 194.

**Glaucous Gull** *Larus hyperboreus*

1895 68.

**Iceland Gull** *Larus glaucoides*

1895 68.

**European Herring Gull** *Larus argentatus*

Bred 1903 111; 1953 174. Longevity, thirty-one years and ten months 1967 131.

**Lesser Black-backed Gull** *Larus fuscus*

1933 93-95b/w. Bred 1953 174.

**Sooty Tern** *Onychoprion fuscatus*

1941 20-21.

**Common Tern** *Sterna hirundo*

1952 37-39.

**Arctic Tern** *Sterna paradisaea*

Australian recovery 1984 179.

**Inca Tern** *Larosterna inca*

At London Zoo 1960 123. Bred 1965 192. Breeding 1999 22-25b/w. Outstanding success 2013 134.

## **SKUAS** *Stercorariidae*

**Great Skua** *Stercorarius skua*

Swallowing glove 1962 80. Waterfall pirate at home 1895 7-8.

## **AUKS** *Alcidae*

### **AUKS**

1929 14. Breeding results 2013 132-133.

**Little Auk** *Alle alle*

1905 356-358. Record numbers 1994 227.

**Common Guillemot** *Uria aalge*

1941 21-22. Bred 2005 48. Egg-laying in captivity 1969 42-46. Hatched 1972 68; 1973 64; 1993 194.

**Pigeon Guillemot** *Cephus columba*

Breeding at Living Coasts 2005 53-55b/w.

**Parakeet Auklet** *Aethia psittacula*

Keeping and hand-rearing 1995 3-12\*.

### **PUFFINS**

An experiment in culture 1959 1b/w.

**Atlantic Puffin** *Fratercula arctica*

Decline on Lundy 1969 112. On Saltee Island 1918 241-243b/w.

**Tufted Puffin** *Fratercula cirrhata*

Bred 1973 64; 1974 114. Fertile egg 1968 220. \*2013 128.

## SANDGROUSE *Pteroclididae*

1897 177; 1906 219\*; 1929 322. Breeding Records 1925 85. Breeding reference 1982 61. Notes 1910 313. Notes on keeping 1931 168.

### **Pallas's Sandgrouse** *Syrhaptes paradoxus*

Bred in Denmark 1932 37-38. Breeding 1986 121-124b/w. Breeding note 1995 171.

### **Pin-tailed Sandgrouse** *Pterocles alchata*

1923 183. Bred 1897 178-180; 1900 77; 1905 64; 1913 150. Breeding Records 1925 85. Longevity, eighteen years 1910 133. \*1906 219.

### **Chestnut-bellied Sandgrouse** *Pterocles exustus*

1923 183-184. Bred 1913 149-150. Breeding 1905 64-66. Breeding Records 1925 85.

### **Spotted Sandgrouse** *Pterocles senegallus*

1923 184. Hatched 1907 204. Laid 1931 170.

### **Black-bellied Sandgrouse** *Pterocles orientalis*

Bred 1925 85 (Eastern Black-bellied Sandgrouse *P. o. arenarius*).

### **Four-banded Sandgrouse** *Pterocles quadricinctus*

1923 171-172.

### **Double-banded Sandgrouse** *Pterocles bicinctus*

Breeding and behaviour 1989 69-73b/w.

## PIGEONS AND DOVES *Columbidae*

Aviornis dove show 2012 178-179. Carrier pigeons to be phased out 2000 136. Chequers and bars in pigeons 1907 174,224. Concerning foreign doves 1936 217. Confusion in naming doves 1898 50. Contact for Specialist Group 2008 (2)ibc. Courtship positions of doves 1898 191. Do doves tell the time? 1936 84. Dove acclimatisation experiment 1907 137,190, 215b/w,245; 1908 43. Doves at liberty 1914 123,177. Eating livefood 1903 397; 1904 83. European Fruit Dove Project 2012 173-177. Foreign doves 1911 163,193. Foreign doves in captivity 1966 22. Fostering 2009 155. Further observations on foreign doves 1937 45. Ground doves and pigeons 1929 138,156. Hand-rearing at Bristol Zoo 2009 121-125. Identification of rare doves 1896 33. Keeping doves and pigeons 1966 96,179. List of doves for sale in France 1900 19. Moults and plumage in captive seed-eating doves 1967 33. Nomenclature of doves 1898 40. Notes on doves 1907 41. Observations on seed-eating doves 2001 53. Observing habits of foreign doves 1973 44. Pigeons 1929 37. Pigeons of Gambia 1919 24,103; 1923 185,231. Random observations on behaviour 1962 93. Second egg-tooth in young pigeons 1926 20; 1933 56b/w. True pigeons 1929 180, 200,276. Using foster parents to raise foreign doves 1965 152. Voice and displays of certain pigeons 1956 17b/w,62. HYBRIDS: Nicobar Pigeon x Pheasant Pigeon 1937 135.

### *Columba*

Notes on European wild pigeons 1955 54b/w.

HYBRIDS: Scaled Pigeon x Spot-winged Pigeon 1916 275. Snow Pigeon x Domestic Pigeon (Strasser) 1965 13,174b/w; 1966 133b/w. Speckled Pigeon x Domestic Pigeon 1933 79. Speckled Pigeon x Tippler Pigeon 1997 30.

### **Rock Dove** *Columba livia*

1929 181. Devotion, story of a pair of pigeons 1917 251-256. Important news concerning 1980 176-178. Notes on feral pigeons *Columba livia* var. 1954 190-213b/w. Personal notes 1981 19-33,121-123. Trafalgar 1971 71. Wanted: A green pigeon 1968 146-147.

- Snow Pigeon** *Columba leuconota*  
1911 173-174, 204-207 (Bred). At 10,000 feet 1981 51-53. Bred 1936 115.
- Speckled Pigeon** *Columba guinea*  
1903 104-105; 1919 30-31; 1929 182. In Gambia 1923 209-211. Notes on 1984 224-232b/w.
- White-collared Pigeon** *Columba albitorques*  
1975 228-229.
- Stock Dove** *Columba oenas*  
Personal observations 1980 151-163b/w.  
HYBRIDS: 1940 316.
- Common Wood Pigeon** *Columba palumbus*  
Breeding 1969 114. Country lore 1967 131. Longevity, seventeen years 1965 94. Tame 1986 208-219.
- Bolle's Pigeon** *Columba bollii*  
Breeding Records 1929 186; 1933 79; 1934 319.
- Laurel Pigeon** *Columba junoniae*  
Breeding Record 1933 79.
- African Olive Pigeon** *Columba arquatrix*  
Bred 1973 17. Breeding 1959 169-172b/w. Nesting and feeding 2002 63-68\*.
- Metallic Pigeon** *Columba vitiensis*  
1913 110-115; 1935 167. Nesting 1910 158-164, 193, 195 (Bred) (Correction 226).
- White-headed Pigeon** *Columba leucomela*  
Bred 1963 251; 1967 20; 1991 191.
- Eastern Bronze-naped Pigeon** *Columba delegorguei*  
1984 94b/w.
- Lemon Dove** *Columba larvata*  
1929 138; 1960 46. Bred 1979 96. Bred freely at liberty 1933 82. Breeding 1958 127-129.
- White-crowned Pigeon** *Patagioenas leucocephala*  
1902 287-289b/w (Bred). Bred 1940 7. Breeding at Berlin Zoo 1979 168.
- Scaly-naped Pigeon** *Patagioenas squamosa*  
1899 66-67.
- Scaled Pigeon** *Patagioenas speciosa*  
1929 184\*. Nesting 1961 136-138 (Hatched), 165 (Bred). B/w 1959 41.
- Picazuro Pigeon** *Patagioenas picazuro*  
1899 67. Been bred 1962 39. Clutch size 1963 132.
- Band-tailed Pigeon** *Patagioenas fasciata*  
Double-yolked egg hatched 2000 140. Laid 1940 69-70; 1975 81-84b/w.
- Chilean Pigeon** *Patagioenas araucana*  
Breeding Record 1933 79.
- Seychelles Turtle Dove** *Nesoenas picturatus rostratus*  
1972 103-104.
- Malagasy Turtle Dove** *Nesoenas picturatus picturatus*  
Breeding 1908 79-84; 2000 107-110b/w. Breeding Records 1933 81. Incubation period 1908 217-218. Note 1929 205-206.
- Pink Pigeon** *Nesoenas mayeri*  
At Jersey Zoo 1978 112-114. Breeding 1992 197. Breeding at Jersey Zoo 1979 1-2b/w. Pair at London Zoo 1907 76-77. Successful season in wild 1993 216.
- Streptopelia*  
Some wild pet doves 1911 262.

HYBRIDS: Hybridising with doves at liberty 1956 152. On some hybrids and their fertility 1904 191b/w. European Turtle Dove x Barbary Dove 1956 4. Necklaced Dove x Senegal Dove 1933 81.

**European Turtle Dove** *Streptopelia turtur*

1919 36-37; 1923 231-233; 1929 204. Breeding 1922 170-172 (Isabelline Turtle Dove *S. t. isabellina*). Longevity, twenty-nine years old 1936 130. Nesting 1913 345-346. Stray notes 1985 228-230.

**Barbary Dove** *Streptopelia risoria* dom.

1952 145-147; 1953 71-72. As foster-parents 1897 135,209. At liberty 1930 192-194,252. Free-flying 1982 163-170. Longevity of 1975 180. Longevity, twenty-three years old 1898 17. Mutations 1959 181. Note 1903 105-106. Observations on semi-liberty birds 1952 205-219b/w. Possibilities of breeding 1944 46. Tame 1901 44.

**Dusky Turtle Dove** *Streptopelia lugens*

Hand-rearing 1948 53.

**Island Collared Dove** *Streptopelia bitorquata*

1929 207.

**Eurasian Collared Dove** *Streptopelia decaocto decaocto*

1929 209-210; 1953 73. Breeding at liberty 1897 209. In Lincolnshire 1952 194. Spread in USA 2000 110.

**Burmese Collared Turtle Dove** *Streptopelia decaocto xanthocycla*

1906 321-326b/w.

**African Collared Dove** *Streptopelia roseogrisea*

1921 100-104; 1929 208-209.

**Mourning Collared Dove** *Streptopelia decipiens*

1903 237; 1929 206-207. Breeding 1910 120-126.

**Red-eyed Dove** *Streptopelia semitorquata*

1929 33-36; 1923 211-214 (Wild); 1903 106-107; 1907 318-324 (Bred); 1929 206.

**Ring-necked Dove** *Streptopelia capicola*

1903 233-234 (Fledged); 1929 207-208. Mutation 2001 187\*.

**Vinaceous Dove** *Streptopelia vinacea*

1919 31-33; 1923 214-215; 1929 208. Bred 1897 135; 1903 111.

**Red Turtle Dove** *Streptopelia tranquebarica*

1903 130b/w; 1973 197-199 (Bred).

**Spotted Dove** *Spilopelia chinensis*

Breeding 1898 24-27. Breeding at liberty 1936 117. Breeding Record 1898 27. Notes 1929 210-211.

**Laughing Dove** *Spilopelia senegalensis*

1903 107,130-131; 1907 41; 1929 211-213; 1965 94. In Gambia 1919 103-104; 1923 233-234. Mutation 1984 246. Story of a 1947 97-103.

*Macropygia*

Adjusting quickly to confinement 1971 69.

**Barred Cuckoo-Dove** *Macropygia unchall*

Bred 1928 21; 1969 22; 1990 70. Breeding Records 1933 80-81. Prolific breeders 1931 99.

**Brown Cuckoo-Dove** *Macropygia phasianella*

Bred 1962 176.

**Emerald-spotted Wood Dove** *Turtur chalcospilos*

1929 112.

**Black-billed Wood Dove** *Turtur abyssinicus*

1929 111. Breeding and behaviour 1978 64-68.

**Blue-spotted Wood Dove** *Turtur afer*

In field and aviary 2005 2629\*. In Gambia 1919 104-106; 1923 234-236; 1929 111. Notes 1981 111-112.

**Tambourine Dove** *Turtur tympanistria*

1903 235-236; 1929 110-111; 1984 96-98b/w. Bred 1931 98. Breeding 1906 307-310b/w. Nesting attempts 1903 398-399; 1904 100-101; 1905 376 (Hatched).

**Blue-headed Wood Dove** *Turtur brehmeri*

1929 114. Bred 1953 141; 1971 55-56. Notes on 1906 251-254\*. Young in nest 1962 79.

**Cape Dove** *Oena capensis*

1906 199-200b/w; 1929 109-110. Bred under fosters 1936 218. Breeding Records 1933 82. Do you keep and breed 2006 184-185; 2010 99. In Gambia 1919 106-107; 1923 236-237.

**Emerald Dove** *Chalcophaps indica*

1903 107-108; 1904 333 (Bred); 1906 277-280; 1914 149-152\*, 194b/w; 1929 112-113. Bred 1935 260-261; 1936 301; 1967 205. "Mr Barnes-Wingdove" 1970 213-215\*. Mutation 1980 119. Nesting 1901 159-160 (Eggs). Prolific breedings 1960 43. Variable bill colour 1896 64.

**Stephan's Emerald Dove** *Chalcophaps stephani*

1929 113-114.

**New Guinea Bronzewing** *Henicophaps albifrons*

1929 114-115; 1957 189. Breeding 8-12.

*Phaps*

Bronzewinged Doves of Australia 1955 111b/w. Bronzewinged Pigeons 1929 109. HYBRIDS: Generic hybrids 1933 83.

**Common Bronzewing** *Phaps chalcoptera*

1898 41-43; 1928 1-3\*; 1929 115-116; 1955 111b/w. Bred 1931 97; 1933 130; 1988 92-95; 1988 180b/w. Feeding on wineberry 1988 234. Further nesting notes 1935 151-152b/w. Nesting notes 1934 194-197.

**Brush Bronzewing** *Phaps elegans*

1929 116; 1955 111b/w. Habits in captivity 1904 211-214b/w (Bred), 263-266. Bred 1940 70.

**Flock Pigeon** *Phaps histrionica*

1929 116-117; 1932 76-78 (Early Breeding Record). Bred 1940 274; 1943 27. Flourishing wild population 1995 85-85.

**Crested Pigeon** *Ocyphaps lophotes*

1903 108-109, 236-237; 1929 119-120; 1955 112b/w; 1988 205-210b/w; 2010 46. At liberty 1907 278-279; 1932 294; 1960 73-74b/w. Bred 1895 120. Breeding data 1897 204; 1936 218. Management at Exmoor Zoo 2009 185-191\*. Seventeen reared by fosters 1897 135.

*Geophaps, Petrophassa*

Notes on 1907 51b/w. Partridge Pigeons of Australia 1907 292b/w.

**Spinifex Pigeon** *Geophaps plumifera*

1904 230-231 (Been bred); 1929 118-119; 1955 113-114b/w. Apparent assumption of breeding plumage in male 1914 112-113, 178. Bred 1905 290; 1937 309. Breeding 1963 138-140. Nesting 1907 130-131 (Bred).

**Squatter Pigeon** *Geophaps scripta*

1907 292-297b/w; 1929 117; 1955 113b/w. Bred 1905 290; 1960 250; 1961 34. Nesting 1908 337-343 (Bred); 1909 40-45.

- Partridge Pigeon** *Geophaps smithii*  
1907 292-294 (Fertile eggs); 1929 118; 1955 113b/w. Fledged 1979 169.
- Wonga Pigeon** *Leucosarcia melanoleuca*  
1929 160. Bred 1931 287; 1935 106. Hatched 1905 255; 1933 124; 1934 159. Success 2003 9-11.
- Chestnut-quilled Rock Pigeon** *Petrophassa rufipennis*  
Bred 1976 217.
- White-quilled Rock Dove** *Petrophassa albipennis*  
1929 117.
- Diamond Dove** *Geopelia cuneata*  
1897 171-174b/w; 1903 234-235; 1904 332; 1915 342-349; 1929 277-278. Fertile eggs laid at two-and-a-half months old 1900 2. Longevity, nineteen years 1916 97. Mutations 1939 352; 1983 121-122; 1984 63,127. Normal coloured population 2006 184-185. Observations 1960 97-105b/w. Reared 1899 35. Unusual nesting habits 1936 250.
- Zebra Dove** *Geopelia striata*  
1928 254; 1929 18; 1929 276-277 (Early Breeding Record). Bred 1897 205; 1934 160,268; 1968 211. Breeding 1907 58-59. Display 1925 291-292.
- Bar-shouldered Dove** *Geopelia humeralis*  
1929 277. Bred 1899 69. Breeding Records 1933 82. Incubating 1897 204.
- Passenger Pigeon** *Ectopistes migratorius*  
1902 33-34; 1924 222-223. "No less than seventy Knowsley-bred birds were offered" 1947 27.  
HYBRIDS: 1918 251.
- Mourning Dove** *Zenaida macroura*  
1929 200-201. Bred 1960 224-225. Breeding 1934 188-189; 1937 266-267. Encounters with 1971 169-171b/w. "Young ready to leave nest" 1897 205.  
HYBRIDS: 1934 265-266.
- Socorro Dove** *Zenaida graysoni*  
1929 201. Breeding 1926 223-224. Breeding Records 1933 81. Extinct in wild 2004 93. On the edge 2006 60-61. On way home 2008 156. Request for information 1979 46.
- Eared Dove** *Zenaida auriculata*  
1929 202. Bred 1936 318-319; 1959 176. Breeding Records 1933 81.
- Zenaida Dove** *Zenaida aurita*  
1897 203-204 (Bred); 1899 68; 1900 284; 1929 201-202.
- Galapagos Dove** *Zenaida galapagoensis*  
1929 203. Breeding 1959 135. Breeding Record 1934 319. In captivity and freedom 1959 66-76b/w. Prolific flock 1958 184.
- White-winged Dove** *Zenaida asiatica*  
1968 131-133. Hatched 1907 41-42. Nesting 1902 295-297 (Bred); 1903 131-132.
- Inca Dove** *Columbina inca*  
1929 279.
- Scaled Dove** *Columbina squammata*  
1929 278. Nesting 1904 278-279 (Bred); 1960 241-244.
- Common Ground Dove** *Columbina passerina*  
1899 68-69; 1900 17-19,227; 1903 235; 1929 280; 1959 116-119. Bred 1959 181. Breeding Records 1933 82.
- Plain-breasted Ground Dove** *Columbina minuta*  
1900 79; 1929 281. Breeding 1924 253-254. Breeding Records 1925 27. Nesting 1908 257-260 (Bred).
- Ecuadorian Ground Dove** *Columbina buckleyi*  
1929 281. First importation into America 1969 179-180 (Bred).

- Ruddy Ground Dove** *Columbina talpacoti*  
 1929 281. Aggression 1974 201. Bred 1929 281-282; 1933 82 (*C. t. rufipennis*).  
 Breeding and behaviour 1974 86-92b/w. Breeding at early age 1924 272-273.  
 Incubation period 1905 234. Range expansion 2000 110. Reared 1904 353-354. Two  
 nests at once 1906 114.
- Picui Ground Dove** *Columbina picui*  
 1903 236; 1929 279.
- Croaking Ground Dove** *Columbia cruziana*  
 1929 279-280. Bred 1968 211-212. Breeding and behaviour 1974 181-188b/w.  
 Breeding and diet 2006 75-83\*.
- Blue Ground Dove** *Claravis pretiosa*  
 1929 282. Bred 1951 28; 1998 186. Fledged 1940 70.
- Purple-winged Ground Dove** *Claravis geoffroyi*  
 1929 282-283 (Early Breeding Record). Breeding Record 1933 82.
- Bare-faced Ground Dove** *Metriopelia ceciliae*  
 Bred 1939 4; 1960 250; 1971 56.
- Black-winged Ground Dove** *Metriopelia melanoptera*  
 1929 203-204.
- White-tipped Dove** *Leptotila verreauxi*  
 1929 138-140. Breeding Record 1933 83. Nesting 1905 130-134 (Bred).
- Grey-fronted Dove** *Leptotila rufaxilla*  
 1929 139-140. Bred 1933 56. Incubation period 1905 234. Nesting 1904 270-275  
 (Bred).
- Grey-headed Dove** *Leptotila plumbeiceps*  
 1929 139.
- Grenada Dove** *Leptotila wellsii*  
 1899 68,95; 1929 141-142. Nesting 1926 221-222 (Bred).
- Caribbean Dove** *Leptotila jamaicensis*  
 1903 231-232; 1905 87-89\*; 1929 141. Incubation period 1905 234. Nesting 1903 393-  
 397b/w (Bred); 1904 28-30.
- Grey-fronted Quail-Dove** *Geotrygon caniceps*  
 1925 298-299 (Bred); 1929 144-145. Bred 1931 287; 1959 19.
- Crested Quail-Dove** *Geotrygon versicolor*  
 1929 142; 1966 85-86. Bred 1940 70; 1973 142. Close-up view 1963 201-205. Keeping  
 and breeding 1977 102.
- Chiriqui Quail-Dove** *Geotrygon chiriquensis*  
 Bred 1955 18.
- Key West Quail-Dove** *Geotrygon chrysia*  
 A years breeding behaviour 1968 59-61. Bred 1931 287. Dilute form 1970 66-67b/w.  
 Nesting 1962 170-172. Nesting behaviour 1962 136-139. Notes 1909 39; 1929 143-  
 144; 1974 45-46b/w.
- Bridled Quail-Dove** *Geotrygon mystacea*  
 1929 19. Bred 1959 19.
- Ruddy Quail-Dove** *Geotrygon montana*  
 1903 231; 1929 142-143; 1948 48-50. Bred 1931 343; 1955 18 (*G. m. martinica*).  
 Breeding 1906 357-358. Breeding Record 1907 82. Egg-tooth on both mandibles on  
 squab 1925 277b/w; 1926 20. Young of 1933 55.
- Blue-headed Quail-Dove** *Starnoenas cyanocephala*  
 1929 159-160; 1958 115. Breeding Records 1933 84. Diet 1966 65.
- Nicobar Pigeon** *Caloenas nicobarica*  
 1929 161-162. Bred 1931 199; 1932 7; 1939 17. Breeding colony data 1993 194.  
 Nearest living relative of Dodo 2002 47. Successful breeding using foster parents 1990  
 130-132. Wild data 1997 115. \*2002 20.



## *Gallicolumba*

Possible method of sexing two species 1979 105. Three species bred 1997 63.

HYBRIDS: White-fronted Ground Dove x Marquesas Ground Dove 1937 126. White-throated Dove x White-breasted Ground Dove 1933 84

### **Luzon Bleeding-heart** *Gallicolumba luzonica*

1903 132-133b/w (Bred); 1929 145-146. Bred 1931 287; 1962 42. Breeding 1967 167-168. Breeding Records 1933 83. Breeding requirements 1962 177. Breeding well 1998 44. Eyes reddish plum-coloured not brown 1900 64. Rearing 1976 163-164. Sexing 1979 105.

### **Mindanao Bleeding-heart** *Gallicolumba crinigera*

1929 146-147; 1964 118. Bred 1950 6. Breeding 1909 225-234b/w\*; 1963 217-222b/w. Breeding Records 1933 83. Sexing 1979 105.

### **Negros Bleeding-heart** *Gallicolumba keayi*

"Has been kept" 1909 234. New population discovered 1998 93.

### **Cinnamon Ground Dove** *Gallicolumba rufigula*

At London Zoo 1913 36. Breeding 1985 129-130. Notes 1929 156-157; 1980 119. Rearing 1937 56.

### **Sulawesi Ground Dove** *Gallicolumba tristigmata*

Bred 1987 111.

### **White-breasted Ground Dove** *Gallicolumba jobiensis*

1923 69,82; 1929 158. Bred 1931 99,330; 1932 7; 1937 87-88. Breeding 1922 168-170. Breeding Records 1933 83.

### **White-fronted Ground Dove** *Gallicolumba kubaryi*

1929 158.

### **White-throated Dove** *Gallicolumba xanthonura*

1929 158-159. Bred in America 2006 186. Breeding Record 1933 84.

### **Tongan Ground Dove** *Gallicolumba stairi*

1929 157; 1935 167-168. Breeding Record 1933 84. Captive care 2011 105-110\*.

### **Marquesan Ground Dove** *Gallicolumba rubescens*

1925 79-80; 1929 159. Bred 1937 309; 1932 7. Breeding Records 1933 84.

### **Bronze Ground Dove** *Gallicolumba beccarii*

1929 157. At San Diego Zoo 1942 45.

### **Pheasant Pigeon** *Otidiphaps nobilis*

1929 160-161; 1978 111. Bred 1934 22; 1994 52. Bred for over ten years 1937 135. Breeding 1930 158-160b/w.

### **White-naped Pheasant Pigeon** *Otidiphaps nobilis aruensis*

Laid 1951 194. \*2002 29.

### **Green-naped Pheasant Pigeon** *Otidiphaps nobilis nobilis*

1991 123-127b/w.

## *Goura*

Studbook 1993 32.

HYBRIDS: Western Ground Pigeon x Victoria Crowned Pigeon 1918 251 (Hatched).

### **Western Crowned Pigeon** *Goura cristata*

1929 162-163. Bred 1937 125; 1961 142; 1974 198. Bred to second generation 1964 147-148. Breeding 1931 20-21b/w; 1980 N/L. Extraordinary cause of death 1968 151.

### **Southern Crowned Pigeon** *Goura scheepmakeri*

1929 163; 1932 141-142\*. Bred 1965 70; 2001 142 (Slater's Crowned Pigeon *G. s. slaterii*). First UK breeding 2005 184. Hatched 1931 336. Laid 1930 303-304.

**Victoria Crowned Pigeon** *Goura victoria*

1929 163-164b/w. Bred 1937 125,126; 1974 198; 1995 87. Breeding 1946 199-200b/w; 1973 48b/w; 2001 76-84\*. My experiences breeding 2002 1-2. Observations 1996 27-30. \*2003 71.

**Dodo** *Raphus cucullatus*

In Captivity 1928 33.

**Rodrigues Solitaire** *Pezophaps solitaria*

In captivity 1928 33.

**Tooth-billed Pigeon** *Didunculus strigirostris*

1929 164. Rediscovery 2014 40.

**Pink-necked Green Pigeon** *Treron vernans*

1924 294.

**Orange-breasted Green Pigeon** *Treron bicinctus*

1924 294.

**Thick-billed Green Pigeon** *Treron curvirostra*

1924 294. Breeding 1964 146. Notes 1984 238-240.

**Yellow-footed Green Pigeon** *Treron phoenicopterus*

Lutinism in a Southern Fruit Pigeon (*Crocopus chlorogaster*) 1926 227.

**Bruce's Green Pigeon** *Treron waalia*

Bred in UK 2007 47.

**African Green Pigeon** *Treron calvus*

Bred 1956 159. In Gambia 1919 24-30; 1923 185-187,207-209. Note 1903 232-233.

**Wedge-tailed Green Pigeon** *Treron sphenurus*

Bred 1939 16. In confinement 1912 129-135\*,165-169,228.

**FRUIT DOVES**

1929 63,85. Feeding fruit pigeons 1967 47. Four species bred 1997 63. Something about a fruit pigeon from Samoa 1896 59.

**Banded Fruit Dove** *Ptilinopus cinctus*

Bred 1995 133. Breeding 1994 189-191b/w.

**Yellow-breasted Fruit Dove** *Ptilinopus occipitalis*

Breeding 1970 146-147; 1993 148-151.

**Jambu Fruit Dove** *Ptilinopus jambu*

Bred 1992 195.

**Black-chinned Fruit Dove** *Ptilinopus leclancheri*

Breeding 1971 33-34.

**Wompoo Fruit Dove** *Ptilinopus magnificus*

At London Zoo 1921 182.

**Pink-spotted Fruit Dove** *Ptilinopus perlatus*

1913 36; 1996 25-26.

**Tanna Fruit Dove** *Ptilinopus tannensis*

1999 93.

**Orange-fronted Fruit Dove** *Ptilinopus aurantifrons*

At London Zoo 1921 152.

**Wallace's Fruit Dove** *Ptilinopus wallacii*

At London Zoo 1913 36. \*1929 85.

**Superb Fruit Dove** *Ptilinopus superbus*

Bred 1995 33; 2000 75\*. Hand-rearing 1999 57-64b/w. \*2002 17.

**Many-colored Fruit Dove** *Ptilinopus perousii*

1935 164.

**Mariana Fruit Dove** *Ptilinopus roseicapilla*

Imported 1930 398.

- Rose-crowned Fruit Dove** *Ptilinopus regina*  
1916 23-24b/w; 1917 139-141b/w; 1929 105-107\*. Bred 1933 78; 1988 232; 1996 46.
- Coroneted Fruit Dove** *Ptilinopus coronulatus*  
1953 19-20. Breeding 1923 199-200. Four bred to date 1926 44. Hatched 1923 244-245. Notes 1924 218-220.
- Beautiful Fruit Dove** *Ptilinopus pulchellus*  
Bred 1997 140; 1998 132.
- Orange-bellied Fruit Dove** *Ptilinopus iozonus*  
At London Zoo 1913 36.
- Black-naped Fruit Dove** *Ptilinopus melanospilus*  
Breeding 1932 267b/w. Husbandry and propagation 1990 178-180.
- Orange Fruit Dove** *Ptilinopus victor*  
1935 165-166.
- Golden Fruit Dove** *Ptilinopus luteovirens*  
1935 166.
- Cloven-feathered Dove** *Drepanoptila holosericea*  
Breeding 1985 32-41\*, 242-243; 1986 234-235.
- Mauritius Blue Pigeon** *Alectroenas nitidissimus*  
The Pigeon Hollandais 1915 61-62b/w. The true Pigeon Hollandais 1918 159-160b/w (Now extinct).
- Seychelles Blue Pigeon** *Alectroenas pulcherrimus*  
At London Zoo 1906 265; 1972 104. Bred 1939 7. Breeding 1918 157-158. Naming 1918 172.
- Ducula*  
Display and posture in some larger fruit pigeons 1972 39b/w. Drinking habit 1957 214.
- Spotted Imperial Pigeon** *Ducula carola*  
Display and posture 1973 39.
- Green Imperial Pigeon** *Ducula aenea*  
1924 294. Bred 1958 72. Breeding 1957 145-148\*.
- Elegant Imperial Pigeon** *Ducula concinna*  
1995 80.
- Polynesian Imperial Pigeon** *Ducula aurorae*  
At liberty in Tahiti 1940 170.
- Marquesan Imperial Pigeon** *Ducula galeata*  
Census and management plan 1994 110-111.
- Purple-tailed Imperial Pigeon** *Ducula rufigaster*  
1995 80.
- Christmas Imperial Pigeon** *Ducula whartoni*  
Hatched 1904 366 (Correction, did not hatch 1905 40).
- Grey Imperial Pigeon** *Ducula pickeringii*  
Wild data 1997 114.
- Barking Imperial Pigeon** *Ducula latrans*  
1935 166-167.
- Goliath Imperial Pigeon** *Ducula goliath*  
"Bred on many occasions in Australia" 1940 105.
- Pinon's Imperial Pigeon** *Ducula pinon*  
Bred 1993 194; 1995 80.
- Zoe's Imperial Pigeon** *Ducula zoeae*  
Rearing 1939 366; 1995 80.
- Mountain Imperial Pigeon** *Ducula badia*  
Display and posture 1973 40-41b/w. Mating ceremony 1973 44.

**Pied Imperial Pigeon** *Ducula bicolor*

Bred 1967 116. Breeding 1983 1-3b/w. Breeding note 1995 171. \*1957 145. Wild breeding 2006 93.

**Silver-tipped Imperial Pigeon** *Ducula luctuosa*

1913 36b/w.

**Torresian Pied Imperial Pigeon** *Ducula spilorrhoa*

Bred 1937 308-309 (Sexing); 1966 172. Display 1973 4.

**Topknot Pigeon** *Lopholaimus antarcticus*

1956 107-110.

**New Zealand Pigeon** *Hemiphaga novaeseelandiae*

1933 405-409b/w.

**Papuan Mountain Pigeon** *Gymnophaps albertisii*

1995 80. Bred 1998 166. Husbandry and breeding 1999 72-76b/w\*.

## **HOATZIN** *Opisthocomidae*

**Hoatzin** *Opisthocomus hoazin*

First import 1931 196-197b/w. Recent work on 1919 182-183. Wild 1931 297-298.

## **TURACOS** *Musophagidae*

1912 145; 1925 284. Al Wabra Wildlife Preservation working with 2006 125-138\*.

Breeding 1982 205-209. Breeding at Paradise Park 2009 157. Census 1992 40.

International Turaco Society meeting 2013 141. Leg deformities 2004 140. Mostly about turacos 1993 171. Name of 1965 135. Nesting behaviour 2008 2-12,63-69\*. Pathology and diseases 2001 100. Recent breedings 1993 43. Recent importations 1991 91. Result of census 1993 104. Wing pigments 1919 63. Young of 1905 117.

HYBRIDS: Hartlaub's Turaco x Knysna Turaco 1968 124. Knysna Turaco x Livingstone's Turaco 1981 15. White-cheeked Turaco x Ruspoli's Turaco 2003 86.

**Great Blue Turaco** *Corythaëola cristata*

1915 325-326b/w; 1928 152-153,163,186-188b/w,273,276; 1930 1-2\*; 2002 123-126\*.

Bred 1999 95; 2001 92; 2002 91. Hand-rearing 2011 111-121b/w\*. Hatched 2002 90.

Hatched in Japan 2006 168.

**Buffon's Turaco** *Tauraco persa buffoni*

Breeding 1916 211-219; 1991 35-36.

**Gold Coast Turaco** *Tauraco persa persa*

1925 286-288. Breeding 1932 3-5; 1971 163-165b/w. Breeding data 1973 77-78.

Unsuccessful nesting 1927 270-272. \*1925 192.

**Livingstone's Turaco** *Tauraco livingstonii*

Thirteen bred 1993 104.

**Schalow's Turaco** *Tauraco schalowi*

1931 1\*. At London Zoo 1900 60. Bred 1967 119-120. Breeding 1973 75-78. \*2003 75.

**Knysna Turaco** *Tauraco corythaix*

Bred 1949 3,158; 1965 120; 1970 25; 1974 118. Breeding 1963 25-29. Nesting 1908 297-298b/w (Hatched); 1909 350-351 (Hatched). Notes 1911 183-184; 1959 43.

**Fischer's Turaco** *Tauraco fischeri*

Breeding 1993 168-170. Description of nest and eggs 1976 219 (Wild). \*2003 76. *T. f. zanzibarcus*: Rediscovered 1992 86.

**Yellow-billed Turaco** *Tauraco macrorhynchus*

Anatomy of nestling 1905 55-63b/w,117-118. Nesting 1905 26-29b/w (Reared to a month). Successful breeding 1907 87-90. The Great-billed Turaco 1914 361-362b/w.

**White-crested Turaco** *Tauraco leucolophus*

Bred 1998 132.

**Bannerman's Turaco** *Tauraco bannermani*

1999 143.

**Red-crested Turaco** *Tauraco erythrolophus*

1915 270-272; 1925 289b/w. Bred 1974 160. Breeding 1916 334-335 (Lived a month); 1975 4-6b/w. \*1916 211.

**Hartlaub's Turaco** *Tauraco hartlaubi*

1953 179-181\*; 1999 143. Hand-rearing 1948 52-53. Notes 1954 86-89. \*1994 90.

**White-cheeked Turaco** *Tauraco leucotis leucotis*

2010 95. Bred 1964 226; 1974 160; 1976 216 (After twenty years in captivity: Longevity). Breeding 1965 25-27; 1984 209-215. Hand-rearing 1984 32-34b/w. Hatched 1972 30. Second generation reared 1980 183. Thirty-seven bred 1993 104.

**Donaldson's Turaco** *Tauraco leucotis donaldsoni*

1925 141. Bred 1930 129-130. Longevity, eighteen years 1963 88.

**Ruspoli's Turaco** *Tauraco ruspolii*

Conserving 2010 132. New studies find challenges and opportunities 2011 145-149. Not so rare 2000 139. Prince Ruspoli's death 2006 144. Reasonably abundant 1996 91. Threatened by hybridisation with White-cheeked Turaco 2009 138-142\*.

**Purple-crested Turaco** *Tauraco porphyreolophus*

Breeding 1974 217-219; 1992 111-114b/w. Imported 1927 26. Note 1924 271.

**Violet Turaco** *Musophaga violacea*

1930 141-142\*. Breeding 1988 129-135. Breeding notes 1997 56-57. Helping behaviour and other observations 1993 132-135.

**Ross's Turaco** *Musophaga rossae*

1911 53-54\*. Bred 1971 176; 1972 108,203. Breeding 1973 30-34; 1977 179-183b/w. Longevity, over twenty years old 1974 196.

**Grey Go-away-bird** *Corythaixoides concolor*

Breeding 1970 232-233b/w. Breeding data 1973 77-78. Note 1921 68.

**Bare-faced Go-away-bird** *Corythaixoides personatus*

Note 1930 73,79.

**White-bellied Go-away-bird** *Corythaixoides leucogaster*

1930 33\*. Bred 1976 58. Breeding 1985 121-123b/w. Breeding at Waddesdon Manor 2006 62-70\*. Possible sex difference 1972 37,185.

**Eastern Grey Plantain-eater** *Crinifer zonurus*

Eating Rose-bay Willow-herb *Epilobium angustifolium* 2002 91.

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**Guira Cuckoo** *Guira guira*

Bred 1960 219-220. Breeding Records for four German and Swiss zoos between 1987-2004, 2005 146-147. Early breeders 2004 93. First German breeding 2005 141. In captivity 1918 39-40 (Been bred). Nineteen hand-reared 2004 183. Notes 1930 186-187; 1938 294-295. Possible escapee 2005 96.

**Smooth-billed Ani** *Crotophaga ani*

Breeding 1961 67-68. In captivity 1918 40. Wild 1930 147-149.

**Greater Roadrunner** *Geococcyx californianus*

Note 1969 32. Sunbathing posture 1971 128b/w. \*2010 28.

**Rufous-vented Ground Cuckoo** *Neomorphus geoffroyi*

Note 1975 37.

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**Ivory-billed Coucal** *Centropus menbeki*

1938 125b/w.

**Senegal Coucal** *Centropus senegalensis*

In captivity 1918 36-38.

**Blue-headed Coucal** *Centropus monachus*

1981 112.

**White-browed Coucal** *Centropus superciliosus*

Bred 1976 57. Breeding at Exmoor Zoo 2006 47-52\*. Hand-rearing 2007 166-169\*; 2009 7-16\*. Imported 1921 108. Notes 1909 119-122b/w. Unusual nesting behaviour at Exmoor Zoo 2009 17-19\*.

**Greater Coucal** *Centropus sinensis*

Breeding 1928 279-280b/w; 1993 203-204. In captivity 1918 38.

**Lesser Coucal** *Centropus bengalensis*

In captivity 1918 38.

**Black-billed Coucal** *Centropus bernsteini*

1938 125b/w. In captivity 1918 38-39.

**Pheasant Coucal** *Centropus phasianinus*

In captivity 1918 38.

**Bornean Ground Cuckoo** *Carpococcyx radiceus*

Imported 1929 326. In captivity 1918 39. Longevity, eighteen years 1918 39.

**Coral-billed Ground Cuckoo** *Carpococcyx renauldi*

1927 230-231\*. At Berlin Zoo 1980 50-51. Nesting 1927 231-232 (Eggs); 1929 28-29 (Fertile eggs); 1931 98 (Eggs).

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**Crested Coua** *Coua cristata*

Bred 2003 89. Breeding 2012 97-102\*.

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**Scale-feathered Malkoha** *Dasylophus cumingi*

1966 137.

**Chestnut-winged Cuckoo** *Clamator coromandus*

1960 40.

**Squirrel Cuckoo** *Piaya cayana*

1975 37.

**Mangrove Cuckoo** *Coccyzus minor*

1930 147.

**Asian Koel** *Eudynamis scolopaceus*

At London Zoo 1913 89. In captivity 1918 34-35.

**Pacific Long-tailed Cuckoo** *Urodynamis taitensis*

In captivity 1918 35-36. Wild 1934 11.

**Asian Emerald Cuckoo** *Chrysococcyx maculatus*

In captivity 1918 34.

**Diederik Cuckoo** *Chrysococcyx caprius*

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**Klaas's Cuckoo** *Chrysococcyx klaas*

1967 17.

**Shining Bronze Cuckoo** *Chrysococcyx lucidus*

1934 136-138.

**Common Hawk-Cuckoo** *Heirococcus varius*

1902 229; 1903 173-174. In captivity 1918 35.

**Common Cuckoo** *Cuculus canorus*

"A miserable young" 1899 39. Adventures of a young 1902 267-268. As pet 1932 197. Cuckoos and the Sawfly larvae 1928 281-282; 1929 17. Food of 1919 14. Habits in breeding season 1915 279-282b/w. In captivity 1918 31-34. Kept through winter 1911 304-306. March cuckoos 1905 229. Mobbed by starlings 1925 157-158. Notes 1907 240-241, 355, 363; 1908 45-46. Rescued 1984 176.

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**Australian Masked Owl** *Tyto novaehollandiae*

Breeding Record 1949 128-129.

**Madagascar Red Owl** *Tyto soumagnei*

Found in captivity 1994 173.

**Western Barn Owl** *Tyto alba*

1927 129b/w. A tame owl 1937 54-55. Aspects of behaviour and reproduction in captivity 1971 117-125b/w. "Been bred" 1896 77. Bred 1976 112. Food 1905 291-292. Increased population 1986 148-150. Note 1972 112. One hundred and eleven bred and released 1995 34. Pet owl 1949 105-106. Release of captive bred 1973 7-8. Research project 1983 109-110. Status 1992 39. Survey 1994 228.

**Ashy-faced Owl** *Tyto glaucops*

Breeding notes 2001 184.

**Oriental Bay Owl** *Phodilus badius*

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**Indian Scops Owl** *Otus bakkamoena*

1949 98-99. Keeping and breeding 1973 59-63. Notes on rearing 1944 13-15.

**Eurasian Scops Owl** *Otus scops*

1946 222. "Been bred" 1896 77. Bred 1969 162-163. Breeding 1899 159-160. Note 1975 71.

**Seychelles Scops Owl** *Otus insularis*

1972 104. Population estimate 1980 N/L.

**Anjouan Scops Owl** *Otus capnodes*

Discovered 1993 103.

**Tropical Screech Owl** *Megascops choliba*

2009 169-172. Behaviour and moult 1984 105-108b/w.

**Cloud-forest Screech Owl** *Megascops marshalli*

Discovered 1983 54.

**Northern White-faced Owl** *Ptilopsis leucotis*

1910 328-330b/w (Erlanger's Scops Owl); 1927 121-122. Hand-rearing 1989 82-86b/w.

Longevity, eighteen years 1968 223. Nesting 1923 201-203 (Bred).

**Snowy Owl** *Bubo scandiacus*

1931 174-176; 1946 221-222; 1966 57-58. Bred 1975 72. Breeding 1959 17-18b/w;

1968 64-65; 1975 230. Breeding at a year old 1970 75. Breeding Records 1898 198;

1899 72. Breeding wild in Shetlands 1967 207. Change of plumage 1929 18; 1930

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Maturity 1927 200; 1929 18. Migration 1928 11-13. Note 1965 190. Pre-1896 hatchings

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1949 100.

HYBRIDS: Great Horned Owl x European Eagle-Owl 1951 199.

**Great Horned Owl** *Bubo virginianus*

1949 99. Breeding 1928 195-196; 1987 186-190b/w. Breeding Records 1949 104; 1968

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**Magellan's Eagle-Owl** *Bubo virginianus nacurutu*

Breeding 1969 53-54.

**Eurasian Eagle-Owl** *Bubo bubo*

Abandoned wild young fed by captive adults 1955 152. Bred 1932 48; 1949 87-89;

1966 55. Breeding 1962 146-147; 1965 29b/w; 1975 171-172. Breeding Records 1933

85; 1968 175-179. Captive bred young released 1976 219. Management 1975 72-73.

Note 1927 119-120.

**Turkmanian Eagle-Owl** *Bubo bubo turcomanus*

Bred 1966 55; 1976 111.

**Indian Eagle-Owl** *Bubo bengalensis*

Breeding 1976 136-138b/w. Note on 2005 175-180.

**Pharaoh Eagle-Owl** *Bubo ascalaphus*

Bred 1972 211.

**Mackinder's Eagle-Owl** *Bubo capensis mackinderi*

Bred 1962 147; 1966 56; 1968 105.

**Cape Eagle-Owl** *Bubo capensis capensis*

Early Breeding Record 1949 104.

**Spotted Eagle-Owl** *Bubo africanus africanus*

1927 120. Breeding 1902 39-42b/w; 1960 155-156b/w; 1966 56. Breeding at ten

months old 1960 124. Experiences with 1968 213-214.

**Greyish Eagle-Owl** *Bubo cinerascens*

Breeding Records 1968 191. Longevity 1987 90.

**Fraser's Eagle-Owl** *Bubo poensis*

Laid 1920 96-97. Note 1927 120-121.

**Usambara Eagle-Owl** *Bubo vosseleri*

1984 129-134b/w.

**Spot-bellied Eagle-Owl** *Bubo nipalensis*

1927 125b/w.

**Verreaux's Eagle-Owl** *Bubo lacteus*

1976 111,219-220. "Has laid fertile eggs" 1940 69.



- Philippine Eagle-Owl** *Bubo philippensis*  
Finance of research worker 1997 44. Hatched 2005 180.
- Blakiston's Fish Owl** *Bubo blakistoni*  
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- Brown Fish Owl** *Ketupa zeylonensis*  
Apparent sexual dimorphism in call 1973 140-141. Breeding 1986 4-7b/w.
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- Rufous Fishing Owl** *Scotopelia ussheri*  
At London Zoo 1960 123.
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Longevity, twenty-three years 1993 97.
- Brown Wood Owl** *Strix leptogrammica*  
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- Tawny Owl** *Strix aluco*  
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1896 77. Male breeding at year old 1976 194-196. Taking partridges 1961 39,113.  
Tapping on window 1923 279.
- Spotted Owl** *Strix occidentalis*  
Protection 1991 191.
- Northern Barred Owl** *Strix varia*  
Longevity, more than twenty-two years 1960 202.
- Rusty-barred Owl** *Strix hylophila*  
Bred 1976 110,220; 1998 95.
- Rufous-legged Owl** *Strix rufipes*  
2010 133-134.
- Ural Owl** *Strix uralensis*  
1941 169-171b/w. Bred 1966 28 (Correction 91). Breeding 1981 237-241b/w. Note  
1975 72.
- Great Grey Owl** *Strix nebulosa*  
1981 61. Keeping and breeding 1981 233-235b/w. Laid 1966 57.
- African Wood Owl** *Strix woodfordii*  
Bred 1968 191. Breeding 1969 53 (West African Wood Owl *S. w. nuchalis*). "hatched  
and reared a Snowy Owl 1962 39. Longevity, sixteen years 1972 212.
- Mottled Owl** *Strix virgata*  
Bred 1989 30. Breeding 1976 64-65b/w.
- Maned Owl** *Jubula lettii*  
At London Zoo 1962 76.
- Spectacled Owl** *Pulsatrix perspicillata*  
1917 97-98b/w; 1922 159; 1927 125. Bred 1969 192; 1970 205; 1972 32; 1987 91b/w.  
Breeding note 1995 177. Incubating 1960 124. Longevity, twenty-two years 1993 87.
- Northern Hawk-Owl** *Surnia ulula*  
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- Eurasian Pygmy Owl** *Glaucidium passerinum*  
1921 65-66; 1927 128. Bred 1913 348; 1975 71; 1977 18-19. Note 1895 95.
- Pearl-spotted Owlet** *Glaucidium perlatum*  
1910 347-349b/w; 1921 50-52; 1926 41-43; 1977 19b/w.
- Mountain Pygmy Owl** *Glaucidium gnoma*  
Note 1990 98.
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1927 128-129. Breeding 1915 244-245. Hatched 1918 75. Plumage 1921 123.
- Subtropical Pygmy Owl** *Glaucidium parkeri*  
Discovered 1996 41.

- Ferruginous Pygmy Owl** *Glaucidium brasilianum*  
Bred 1977 19b/w.
- Red-chested Owlet** *Glaucidium tephronotum*  
1940 113.
- Asian Barred Owlet** *Glaucidium cuculoides*  
1966 118. Laid 1977 19-20.
- Jungle Owlet** *Glaucidium radiatum*  
1977 20.
- Elf Owl** *Micrathene whitneyi*  
Laid 1942 45.
- Little Owl** *Athene noctua*  
1903 281-282; 1927 127; 1936 198; 1949 90-92. Bred 1975 71. Breeding 1957 44-45; 1969 96-97. "has been bred" 1896 77. Introduced 1987 233b/w; 1937 54; 1940 109.
- Burrowing Owl** *Athene cunicularia*  
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- Boreal Owl** *Aegolius funereus*  
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- Barking Owl** *Ninox connivens*  
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- Australian Boobook** *Ninox boobook boobook*  
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- Norfolk Island Boobook** *Ninox novaeseelandiae undulata*  
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- Cinnabar Boobook** *Ninox ios*  
Discovered 2000 46.
- Christmas Island Boobook** *Ninox natalis*  
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- Little Sumba Hawk-Owl** *Ninox sumbaensis*  
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- Laughing Owl** *Sceloglaux albifacies*  
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- Striped Owl** *Pseudoscops clamator*  
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- Stygian Owl** *Asio stygius*  
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Bred in Hampshire 1905 42. In the trenches 1916 350.
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1926 90b/w.

### **Papuan Frogmouth** *Podargus papuensis*

Imported 1930 308.

### **Tawny Frogmouth** *Podargus strigoides*

1917 164-166. Bred 1956 123; 1995 33; 2003 142. Breeding 1956 142-148b/w; 1983 125-132b/w. Breeding note 1995 175-176. Cuvier's *Podargus* 1916 332-334b/w. Fertile eggs 1954 179. Notes on hand-rearing 1996 97-98.

## OILBIRD *Steatornithidae*

### **Oilbird** *Steatornis caripensis*

A Guacharo cave 1906 236-239b/w. Kept at Bronx Zoo 1968 220-221. Protection 1983 237.

## POTOOS *Nyctibiidae*

### **Great Potoo** *Nyctibius grandis*

At Brookfield Zoo 1959 174-175b/w.

### **Common Potoo** *Nyctibius griseus*

In captivity 1940 100-102.

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1926 30.

### **Nacunda Nighthawk** *Chordeiles nacunda*

At London Zoo 1911 128.

### **Common Nighthawk** *Chordeiles minor*

Attempt to rear 1909 96-98 ("Mosquito Hawk"). Note and longevity 1990 98-99.

### **Pauraque** *Nyctidromus albigollis*

Captive notes 1941 218-220.

### **Ocellated Poorwill** *Nyctiphrynus ocellatus*

2000 51.

### **European Nightjar** *Caprimulgus europaeus*

1907 275-276; 1911 34-35; 1915 137-139b/w, 195, 231. Breeding in captivity 1909 51. Increased wild population 1995 45. Observations on wild pair 1947 185-188.

## OWLET-NIGHTJARS *Aegothelidae*

### **New Caledonian Owlet-nightjar** *Aegotheles savesi*

Rediscovered 2000 92.

### **Australian Owlet-nightjar** *Aegotheles cristatus*

Bred 1972 214.

## SWIFTS *Apodidae*

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